



# STOKES<sup>®</sup>

## SEEDS

*~ Quality Seed Since 1881 ~*

**2014 GARDENING GUIDE**



Awesome XR



Jumbo



Dutchess



Purple Fingers



Oakley



Ghost Chile



Aspabroc



Goldfinger

## VEGETABLES OF MERIT FOR 2014

**BEANS - OAKLEY** 55 days. Upright plants carry dark green 4.5 in/11.5 cm 100% 2 sieve pods well off the ground. Tolerance to CBMV, BCTV, Rust and Brown Spot. Some HB tolerance. Very uniform, outstanding flavor, texture. **BA0999** 50 days. An excellent medium green, 5.5 in/14 cm 65% - 1 to 4 sieve; 35% - 5 to 6 sieve, mechanical harvest Storm type for first early sowings only. Good tolerance to CBMV, intermediate tolerance to Brown Spot. High yield potential and broad regional adaptability.

**BABY BROCCOLI - ASPABROC** 50-60 days from transplants. Resembles broccoli raab with an asparagus-like stem, mild tasting. Plants produce tiny broccoli heads in 50 days from transplant plus 3-5 side shoots in 10 days. Continues producing heads for 4 weeks. Famous new product in grocery stores and restaurants.

**CARROTS - GOLDFINGER** 56 days. F1 hybrid. An improved Sweet Baby Jane type. Matures as a full grown Amsterdam Nantes at 7-8 in/18-20 cm in length at a medium seeding rate. Dark orange uniform, cylindrical roots taper to blunt tips. Mature sweet flavor is excellent. Medium sized upright tops are very strong and have a tolerance to bolting. Yields are high - sells on sight. Stores well for fresh market. **Also** a 49 day F1 hybrid. **Fancy, sweet "baby carrot"** that has strong vigorous tops, very uniform, dark orange roots, smooth skin, tiny cores and nice blunt tips. Excellent high quality bright orange interiors, distinct tap roots and very high soluble sugar flavor. High yield possibilities of dark orange "mini carrots." Average length 5-6 in/14-15 cm at a high seeding rate. **CREAMPAK** 63 days. Attractive, creamy yellow, Imperator type roots have strong, dark green tops. Roots are very smooth 9 in/23 cm in length with no green shoulder. Crisp, mild sweet taste. Good tolerance to ALT and PM. **SNOW MAN** 63 days. Bright white Imperator type with no green shoulder. Smooth skin, uniform shape and good sweet flavor. 8-10 in/23-25 cm root length. Excellent strong tops with good tolerance to ALT and PM.

**CUCUMBER - SUPREMO** 45 days. Plant is very vigorous and may be grown on short stakes or as a row crop type with more space between plants. Dark green blocky fruit have a shape similar to Zapata with a L/D ratio of 3:1, thick skin and a small seed cavity. Size averages 3-4 in/7-10 cm in length. Tolerant to ALS, PM, DM, ZYMV, PRSV, CMV, ANTH and SCAB. A Monoecious pickle.

**EGGPLANTS - PURPLE FINGERS** 65 days. Classic miniature slim Italian long purple eggplant with a green calyx. Bitter free white flesh is firm and delicious. Harvest 4 in/10 cm young sweet fruit, discard large over ripe fruit. O/P **WHITE STAR** 55 days. F1 hybrid. Classic teardrop shape. Glossy white 4-5 in/10-11 cm baby fruit are delicious young. Upright plants provide good leaf coverage. Replaces White Cloud.

**LETTUCE - NIZ44-4402 M.I.** 68 days. Uniform, dark green, early, medium size iceberg type with mildew tolerance. Heads are round, very uniform, maintain good color and eye appeal after harvest. Easy to harvest and easy to pack. Requires less spray for mildew.

**MUSKMELON - ROCKSTAR** 74 days. Nice second early large Eastern shipper with outstanding taste. Lightly sutured, medium netted 5-7 lbs/2-3 kg, firm orange interiors. Tolerant to Fusarium 0, 1, 2 plus intermediate PM 1, 2. **DUTCHESS** 75 days. Perfect medium size, oval 4.5 lbs/2 kg Eastern shipper with amazingly high sugar (14% brix) Firm orange interiors and nice netting. Great holding qualities in stores. Good tolerance to Fusarium 0, 1, 2 and PM 1, 2. **SUMMER DEW** 88 days. Very firm uniform 5.5 lbs/2.5 kg round/oval industry standard for shipping with good extended field holding capabilities. Strong vines, widely adapted. Fruit have cream exteriors, typical white/lime green interior and 12-14% high sugar brix taste. Tolerant to Fusarium 0, 2 and intermediate PM 1, 2.

**PEPPER - SOPRON** 70 days. F1 hybrid. Long slim, 8 in/20 cm tapered yellow sweet Hungarian on medium, upright strong plants with BLS 1, 2, 3. Excellent yields. **GHOST CHILE** 100 days. Certified as one of the "World's Hottest Peppers" originated in Assam, India with a Scoville heat rate at over 1,000,000 units. Handle seeds and fruits with extreme caution (gloves if possible). Fresh market chiles are extremely hot and must be sold in cardboard trays covered in plastic.

**PEAS - JUMBO** 71 days. Large potted fall harvest type. Pods are about 5 in/12 cm long and are filled with 8-10 large dark green peas per pod with sieve 6.0 size. Vigorous 32 in/81 cm plants can be grown commercially in rows or trellised in smaller gardens. Use for fresh market or processing. Tolerant to Fusarium. **PREMIUM** 58 days. Medium sized 3 in/8 cm single and double blunt pods average 7 to 8 dark green peas per pod with 4.3 sieve size. Bushy 23 in/58 cm plants are very easy to cultivate and have a good tolerance to Fusarium. Use for fresh market or freezing.

**SWEET CORN - AWESOME XR** 76 days. Outstanding Rp1-G rust tolerant version of Awesome with the same good husk cover and great yield potential. Strong single ear plant also has good SW and SCALB tolerances. Long dark green flag leaves. Very easy to snap the well filled ears. Nice bicolor contrast. No tillers. Great taste. **SC1336** 83 days. Yellow sh2. An excellent shipper. Blocky, refined 8 x 2 in/20 x 5 cm, 18-20 row ears mature waist high, snaps easily. Tall strong plant. With excellent taste and texture. Three synergistic varieties, **PROFIT** 72 days. Large 8 in/20 cm, 14-16 row bicolor, waist high, ears fill to the tip, covers well. Good flags, tall plants, good cold soil emergence. Excellent taste. **BI-SWEET S-5** 76 days. Very sweet, tender bicolor 8 x 2 in/20 x 5 cm large ears with 16 rows have excellent tip fill and husk cover. Dark green husks, medium flags. For fresh market sales. Good taste. Exclusive. **ESSENCE** 79 days. One of our best eating synergistics. Refined very tender bicolor ears average 8.5 x 2 in/21 x 5 cm in size, 14-16 rows fill to the tip with good tip cover, nice flags and strong tall plants.

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St. Catharines, Ontario - Trial Gardens



Thorold, Ontario - Offices, Warehouse & Retail Store



Buffalo, New York



Vineland, New Jersey

## 4 WAYS TO ORDER



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Monday - Friday 8:00 am - 6:00 pm EST  
Saturdays 8:00 am - 4:30 pm EST

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(Credit Card & Account Orders Only)



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Complete and fax a copy of your order form (24 hours).  
(Credit Card & Account Orders Only)



**MAIL**

Complete and mail your order form with payment to our address on the back of this catalog.



CHECK



MONEY ORDER



## METRIC WEIGHTS

Since Stokes is a major supplier of flower and vegetable seed in both Canada and the U.S.A., we have had to provide Imperial and Metric weight measurement to serve both customer groups. The following list of equivalents may help you:

1/512 oz. = .06 g	1/64 oz. = .44 g	1/4 oz. = 7 g
1/256 oz. = .11 g	1/32 oz. = .89 g	1/2 oz. = 14 g
1/128 oz. = .22 g	1/8 oz. = 3.6 g	oz. = 28 g

## CONDITIONS OF SALE

**PRICES:** All prices on flower, vegetable seed and accessory products are in effect until August 1, 2014 - payable in American funds. We reserve the right to change prices without notice.

**REMITTANCE:** We will accept Visa, MasterCard, Discover and personal checks, or money orders made out to Stokes Seeds Inc. Do not send cash in the mail because we cannot accept responsibility for its loss. Quantity cash discounts may be deducted on all seed orders only - over \$500.00. Sorry - No C.O.D.'s or SASE.

**CREDIT:** All charge orders from our regular commercial grower customers, who have established credit with us, will be invoiced and due 90 days from the invoice date, less cash discounts listed. Interest will be charged on all overdue accounts at the rate of 2% per month, an annual rate of 24%.

**NEW CREDIT:** We cannot extend new credit by phone. Please write or call us for a credit application and supply us with two complete credit references. All new credit is limited to 90 days - less quantity cash discounts. All overdue accounts will be reviewed for future credit and interest will be charged at 2% per month or 24% per annum.

**CASH DISCOUNTS:** A 5% discount applies to flower and vegetable seed orders over \$500 paid in cash or within established credit terms on accounts in good standing. This discount does not apply to accessory purchases.

**VOLUME DISCOUNTS:** Vegetable seed purchases do not qualify for additional discounts. Flower seed purchases over \$500 are subject to additional discounts, please call our office or your sales representative for details and conditions. This discount does not apply to accessory purchases.

**SALES TAX:** Residents of PA, NJ, MI, NY and MO are required to pay state and local taxes on all items listed in our catalog. Commercial growers and farmers are allowed to purchase tax-free, if they provide us with a signed Exemption or Resale Certificate.

**CORRESPONDENCE:** If you have any reason to write, phone or email us about shortages or errors on your order - please provide us with your order number as shown on the packing slip included with all orders.

**DELIVERY:** Orders under \$400.00 are subject to a \$7.75 shipping and handling charge. For prompt, efficient delivery of your order these charges **MUST** be included.

**PRODUCT ILLUSTRATIONS:** All color illustrations are copyrighted and are the property of Stokes or their respective owners. Colors may vary in printing.

**RETURNED ITEMS:** Unauthorized returns of seed or goods will be shipped back to the customer, collect. Authorized returns must be cleared with our head office and shipped back prepaid, within 30 days of receipt of the original order. A 10% restocking and handling charge will be charged on all returns.

**CUSTOMER SERVICE:** For technical advice about our seed varieties and products please phone 1-800-263-7233, email [Stokes@StokeSeeds.com](mailto:Stokes@StokeSeeds.com), or write to our Customer Service Dept. (When requesting information, please use a separate sheet of paper, so we may process your order quickly).

**CROP FAILURES AND SUBSTITUTIONS:** We are dealing with live products, many of which are harvested after our catalog has been printed. If a crop fails or develops a shortage, we reserve the right to pro-rate the item, substitute another item or refund your money. Please indicate your preference on your order.

**TESTED FOR GERMINATION:** All seed is tested for germination and vigor each year, before we sell it. We maintain our own seed testing department, to ensure that only seeds of high germination will be supplied to our customers. Results of the most recent germination test of each stock are marked on all packages of flower and vegetable seed. Germination varies each year.

## PLEASE READ THIS LIVE PRODUCT WARRANTY BEFORE ORDERING OUR SEED

NOTE: Seed is a live product which depends on many important related grower skills such as proper planting time, seed depth, type of soil, irrigation, proper use of fertilizers, weed controls, fungicides, insecticides, disease free soil, and reasonable weather conditions during the growing period. These factors are totally out of the seedsman's control and are the growers responsibility and risk. Our seed cannot be unconditionally guaranteed to perform properly - regardless of weather conditions or the growers methods or mistakes.

### NOTICE TO BUYER - STOKES WARRANTY AND CONDITIONS OF SALE

Stokes Seeds Ltd., and/or Stokes Seeds Inc., and/or Semences Stokes Ltée., and their suppliers, (herein after collectively referred to as the vendor "Stokes") warrants that the seed it sells conforms to the label description as required by Provincial and/or State and Federal Seed Laws. Stokes limits its warranty to the full amount of the purchase price of such seeds. STOKES MAKES NO OTHER WARRANTIES, GUARANTEES OR CONDITIONS EXPRESS OR IMPLIED OF THE MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR OTHERWISE OF THE SEED SOLD BY IT OR THE CROPS GROWN FROM SUCH SEEDS. It is recognized that a mistake or human error can be made in the production, processing or packaging of such seed, therefore, in any event, direct or consequential on account of any negligence whatsoever - IF A BREACH OF WARRANTY, CONDITION OR CONTRACT OCCURS WITH RESPECT TO SUCH SEEDS - THAT IN NO CASE SHALL STOKES BE LIABLE FOR MORE THAN THE PRICE ACTUALLY INVOICED AND/OR PAID FOR SUCH SEEDS BY THE PURCHASER TO THE VENDOR AND/OR THE VENDOR'S AGENT. As a condition to any liability, Stokes must receive notice by registered mail of any claim that the seed is defective within 30 days after the defect in the seed became apparent. Stokes has based the prices of its seeds on this limited warranty and limited liability and these prices would be much higher if further liability coverage were required. These warranties and limitations of liability may not be altered or amended except by an instrument in writing executed by duly authorized officers of Stokes and stamped with the company seal. By acceptance of such seeds, the Purchaser of such seeds acknowledges that this limited warranty and disclaimer herein before described, are conditions of sale and that they constitute the entire agreement between the Vendor and the Purchaser regarding warranty and/or any other liability or conditions. IF THIS LIMITED WARRANTY AND GUARANTEE IS NOT ACCEPTABLE TO THE PURCHASER AS A CONDITION OF SALE - THEN THE PURCHASER MUST NOT PLANT THE SEEDS AND MUST RETURN THE SEEDS IN THEIR ORIGINAL UNOPENED PACKAGE, and the purchase funds shall be refunded.

### NOTICE: ARBITRATION / CONCILIATION / MEDIATION REQUIRED BY SEVERAL STATES

Under the seed laws of several states, arbitration, mediation or conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed to which this notice is attached to produce as represented. The consumer shall file a complaint (sworn for AR, FL, IN, MS, SC, TX, WA; signed only CA, GA, ID, ND, SD) along with the required filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner, or Chief Agricultural Officer within such time as to permit inspection of the crops, plants or trees by the designated agency and the seedsman from whom the seed was purchased. A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

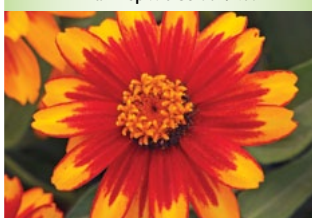




Cosmos - Double Click Mix



Zinnia - Pop Art Golden/Red



Zinnia - Zahara Sunburst



Geranium - Pinto Premium White to Rose



Trailing Snapdragon - Candy Showers



Petunia - EZ Rider Mix

## FLOWERS OF MERIT FOR 2014



Marigold - Garland Orange



Petunia - Limbo GP Rose Morn



Fuseables Petunia - Flirtini



Helianthus - Ruby Eclipse

**ASTER Hulk** is an unique 24 in/60 cm pale-green flower without petals. It produces a cut flower crop 14-15 weeks from seeding and likes partial sun or partial shade locations to maintain its unique flower color.

**BEGONIA** Tuberous rooted **Nonstop Mocca Cherry** with dark coffee colored foliage replaces pure red in this series.

**CELOSIA** A new drought tolerant 14 in/35 cm plumosa type, **Arrabona Red** is a slightly shorter, sturdy, wind tolerant type for borders or large containers. Feathery blooms are long flowering, providing lots of color throughout the hot summer months.

**COSMOS Double Click Mix** is excellent for tall backgrounds or cut flowers all summer long. Plants average 4 ft/120 cm in height, are very sturdy and like full sun and rich soil. Large fully double and semi-double blooms includes **Daydream** and **Picotee**.

**COLEUS** The **Premium Sun** series has added a new color, **Mighty Mosaic**. A tricolor with a slightly different color than **Kong Mosaic** for full sun or partial shade all summer.

**GAZANIA** The **Kiss** series, a 8 in/20 cm drought tolerant large flowered type, has added **Frosty Orange** which features unique silver shaded leaves that contrast nicely with the rich orange blooms.

**GERANIUM Pinto Premium**, one of the best new multi-color seed geranium series on the market includes eleven colors and bicolors plus a 2014 AAS Winner, **White to Rose** bicolor. Plants have shorter flower stems that make it easier to ship and are drought tolerant, providing a longer shelf life at garden centers.

**GYPSOPHILA** The **Gypsy** series, a multi AAS winning double flowered **Baby's Breath**, has added **White** which joins two previous AAS winners, **Pink** and **Deep Rose**.

**HELIANTHUS** We have added two unique bicolor sunflowers to our tall pollen free seedless types. **Jade**, a white to green bloom with green disc, plus **Ruby Eclipse** a three color mix. **Choco Sun** is a dwarf 10 in/25 cm single flowered seedless that is lemon yellow with a dark chocolate center. Great for pot containers or window box use.

**NEW GUINEA IMPATIENS** Two new mixes have been added to the downy mildew tolerant **Divine** series. **Divine Hot Mix**, a blend of scarlet red, orange bronze leaf and cherry red, plus **Divine Mystic Mix**, a blend of white, lavender and violet. To provide an alternative to the above New Guineas, a completely new **Florific** series including four "larger flowered" colors have been added. These are also downy mildew tolerant, but love the shade. In our regular impatiens series, **Xtreme** has added **Bright Eye**, **Bright Rose** and **Punch**.

**MARIGOLDS** For growers that have been looking for a deep orange, double flowered tall companion for Gold Coin Double Eagle, **Garland Orange** can be used for tall backgrounds or as a cut flower.

**NEMESIA** A popular dwarf fragrant filler for mixed pansy containers - the **Poetry** series has added a single color, **Deep Pink** and **Poetry Mix**, a blend of four colors.

**PANSY** The **Karma** series has added **Lemon** to its other 21 separate colors. **Spring Matrix** has added **Blue Wing**, **Rose Blotch** and **Pink Shades**. Trailing pansy series **WonderFall** has added four colors and its companion trailing type, **Cool Wave**, has added three.

**PETUNIA** The only non-stretching grandiflora petunia on the market, **Limbo GP** includes nine separate colors and is great for 4-6 in/10-15 cm garden center pot sales. This series recovers well from rain damage. Six new Petunia **Fuseables** and interspecies blends provide growers with popular new combo choices. **EZ Rider Mix** returns with a blend of six colors.

**SNAPDRAGONS** The world's first dwarf trailing snapdragon series from seed, **Candy Showers**, includes five separate colors & a mix. Plants have 8 in/20 cm very strong trailing stems that ship well and are ideal for mixed containers or hanging baskets with pansies. **Solstice Series** is a new spring flowering, knee-high, cool loving, wind tolerant snap for medium height backgrounds, gallon containers or cut flowers. Plant at the same time as pansies.

**VIOLA** The two miniature flowered viola series, **Sorbet XP** and **Penny**, have both added one color for next season.

**ZINNIA Profusion Double** series adds **Yellow** and **Deep Salmon**, 2014 AAS Winners, along with **Hot Cherry**. Single flowered 12 in/30 cm **Zahara** series has added **Cherry** and **Sunburst**. Two new tall novelty dahlia flowered types for cut flowers, **Pop Art Golden** and **Red** with yellow petals and red flecks, plus **Graffiti** a five color mix.

### PERENNIALS - FIRST YEAR BLOOMING

**ARABIS** A great ground cover for rock gardens, the new **Lotti** series offers **White** or **Deep Rose** blooms on dwarf 4 in/10 cm plants.

**DELPHINIUM** Two new colors for the **Summer** series, **Morning** and **Stars**.

**DIANTHUS** Blooms in May and all summer long, **Flavora Rose Shades** is a 12 in/30 cm dwarf fragrant plant.

**GAILLARDIA** AAS Winner for 2014, **Mesa Peach** is 16 in/40 cm high with bicolor peach and red coloring.

**GAURA** Mounded compact plants with an unusual white/pink blush, single 3.5 in/8.5 cm bloom, flowers June to Sept. **Sparkle White** is a 2014 AAS Winner.

**SWEET WILLIAM** Tall, tender perennial **Sweet** series contains four separate colors and a six color mix. It replaces the **Noverna** series.

# STOKES®

SEEDS

Quality Seed Since 1881

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TAKII	HEM	SEEDSENSE
NUNHEMS	HOLLAR	

## CUT FLOWERS, PERENNIALS AND POTTED PLANTS



Sweet William - Sweet Mix



Gaura - Sparkle White

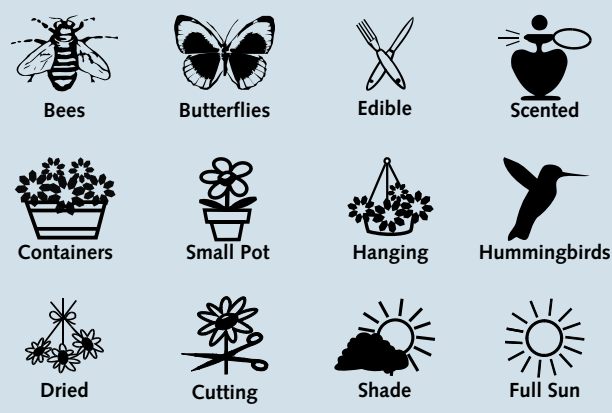


Pansy - WonderFall Yellow/Blotch



PRINTABLE ORDER FORM

Stokes Seeds Inc.



Flower Symbols

* Celsius	Zone	* Fahrenheit
Below -45.6	1	Below -50
-42.8 to -45.5	2a	-50 to -45
-40.0 to -42.7	2b	-45 to -40
-37.3 to -39.9	3a	-40 to -35
-34.5 to -37.2	3b	-35 to -30
-31.7 to -34.4	4a	-30 to -25
-28.9 to -31.6	4b	-25 to -20
-26.2 to -28.8	5a	-20 to -15
-23.4 to -26.1	5b	-15 to -10
-20.6 to -23.3	6a	-10 to -5
-17.8 to -20.5	6b	-5 to 0
-15.0 to -17.7	7a	0 to 5
-12.3 to -14.9	7b	5 to 10
-9.5 to -12.2	8a	10 to 15
-6.7 to -9.4	8b	15 to 20
-3.9 to -6.6	9a	20 to 25
-1.2 to -3.8	9b	25 to 30
1.6 to -1.1	10a	30 to 35
4.4 to 1.7	10b	35 to 40
Above 4.5	11	Above 40

Average Annual Minimum Temperature Hardiness Zone Map



USDA Plant Hardiness Zones

Zone Map: Included in the index below are the approximate zones of hardiness for each perennial and biennial. Zone 3-6 = 3a-6b.

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Tomato - Komeett



Tomato - Geronimo



Tomato - Camelia



Long European Cucumber - Carmen

## GREENHOUSE FORCING TOMATOES

**CULTURE:** Seed count per oz/28 g varies with variety. Spring crop: Sow January 1st-15th; transplant about 10 weeks later (March 15th-April 1st) in 2.5 ft/76 cm rows 16 in/41 cm apart. 250 plants per 1000 sq. ft/93 sq. metre. Day temperatures of 70-75°F/23°C, night 65-67°F/19°C. Must be pollinated every day between 11:30 a.m. and 12:30 p.m. (noon). Early morning or late afternoon pollinating will not produce proper crops. Smaller growers can use an electric toothbrush, larger growers, a Solo back sprayer. If soil tests show that your soil is well-balanced, feed heavily for 2 weeks after transplanting with 8-10 lbs/4.5 kg per 1000 sq. ft/93 sq. m of 10-52-10. For the balance of the growing season use 20-20-20 at the same rate. Fall crop: Sow June 1st-15th. Transplant July 6th-15th, no later than August 5th. FCR means Fusarium Crown Rot tolerant. CLUSTER TYPE: Growing cost is about 20% higher than single fruit production.

### CHERRY TYPES

**406J CAMELIA** (VFT) 65 days. Vigorous vine must be staked. Small .75 oz/15-20 g cherry fruit grow in clusters with good retention. Globe shaped fruit, semi green shouldered, VERY firm with long shelf life.

### CLUSTER TYPES

**366E KOMEETT** (VFFN-ToMV-FCR-LM) Replaces Clarence. Cluster type. Medium size 5.75 oz/160 g deep red round fruit, with uniform trusses from DeRuiter. Even setting, easy to grow. Very early maturity, high yields. Excellent disease tolerances.

**406Z CENCARA** (TMV-VF2C5) Better cell structure, crack tolerance and taste than round cluster types. Indeterminate plant produces about 7 trusses with 8 saladettes per truss. Harvest ripe with stem, holds 10 days. 5 oz/140 g. U.G. fruit, excellent flavor, nice sugar/acid balance.

### STANDARD RED BEEFSTEAKS

**360B GERONIMO** (TMV-VF2C5) De Ruiter's most promising extra large 8.5 oz/240 g, firm beefsteak with good taste and nice red color. Fruit have very good crack tolerance. Plants have excellent vigor and balance. Easy to harvest.

**406L COBRA** (TMV-VF2C5) Best tasting of the greenhouse grown hybrids. Cobra has the interior ripening gene, missing from European types. This provides better consumer acceptance and field ripened taste. Large, firm, 8 oz/227 g beefsteak type fruit.

**406T TRUST** (TMV-VF2C5 FCR) Good firmness, similar in size to Caruso at 8 oz/227g, but with a deeper shape. Nice plant vigor and good yields. Good taste.

**406W DUNDEE** (TMV-VF2-C5-FRN-Wi) A popular red, extra large, 8.25 oz/235 g beefsteak for late spring or fall crops. Fruit are slightly larger than Quest, but similar in shape. Fruit are also very firm and tolerant to russetting. Clip stems at harvest. A generative variety - should be grafted for long crops.

## EUROPEAN GREENHOUSE CUCUMBERS

### F1 Hybrid Gynocious for Greenhouse Production

WINTER CROPS are usually started after fall tomatoes are finished - about Jan.5th - Feb.1st. FALL CROPS are sown in some areas during early August instead of fall tomatoes. SUMMER CROPS are used by some bedding plant growers to utilize vacant greenhouses during the summer months. Seed is sown during May or July. For this period we recommend varieties with some tolerance to Downy and Powdery mildews that plague greenhouse cucumbers in hot damp weather. DISEASES: All mildew tolerant varieties should be used for summer or fall crops and will have better yields at greenhouse temps. of 72°F/22°C days and 66°F/19°C nights. PM = Powdery Mildew; DM = Downy Mildew.

NEW	EUROPEAN CUCUMBERS	25 seeds	100 seeds	500 seeds
	138F Dishon Mini	11.15	32.15	132.85
	144K Carmen	23.75	71.90	297.25
	144Q Camaro	43.05	130.25	538.55
	144U Jawell Mini	39.30	118.90	491.60

### LONG EUROPEAN CUCUMBERS

**144Q CAMARO** Best endurance for hot summers. Moderate plant habit saves labor. Very high yields of excellent quality 16 in/40 cm fruit during spring and autumn months. Intermediate PM tolerance.

**144K CARMEN** (Mildew Tolerant) For summer and fall crops. Good shelf life, short necks, dark green skin. Scab tolerant for Northern areas.

### MINI CUCUMBERS

**138F DISHON** Hybrid Beit Alpha Middle East type. Short, mini dark green fruit have very smooth skin & unique flavor, averaging only 6 in/15 cm long.

**144U JAWELL** Dark green 6 in/15 cm mini fruit with nice ribbing. Good shelf life. Necrosis free. For year round culture. Intermediate PM, plus CMV and CVYV tolerances.



Mini Cucumber - Jawell

NEW	GREENHOUSE FORCING TOMATOES	# seeds per pkt	Pkt	250 seeds	500 seeds	1,000 seeds
	360B Geronimo	25	30.55	237.05	350.80	595.42
✓	366E Komeett	25	27.25	260.50	385.55	654.36
	406J Camelia	25	13.85	57.95	79.45	134.82
	406L Cobra	25	9.95	81.75	121.00	205.37
	406T Trust	25	25.25	205.10	303.55	515.24
	406W Dundee	25	27.80	219.00	324.10	550.07
	406Z Cencara	25	17.00	133.25	197.20	334.74

## HYBRID SWEET PEPPER For High Tunnel Culture and Staking Type Plants

**CULTURE:** This is NOT a greenhouse pepper! It has a limited disease package which includes tolerances to TMV and some Tomato Spotted Wilt. It does not have BLS, a Phytophthora or Mildew tolerances so it must be grown in an open high tunnel to provide the variety with some added protection from insects and some diseases. Plants are vigorous, indeterminate and must be grown on 4.5 ft/1.47 m stakes. Therefore tunnel sides must be at least 6 ft/1.8 m high. Fruit are medium sized, 3.75 in/9.5 cm, high quality and ripen uniform dark green to red 4 lobed bell types very early in the season. Growers must avoid tunnel construction in heavily diseased locations. Use plastic ground cover to stop weeds.

**257D CHESAPEAKE** F1 hybrid. Very early, smooth, blocky fruit change color from dark green to red rapidly. Tall plant provides excellent fruit cover and matures higher yields of red fruit on stakes than row crop varieties. Extend fresh market harvests throughout early summer until mid fall with high tunnel protection. Pkt. (25 seeds) \$27.25; 250 seeds \$152.50; 500 seeds \$225.70; 1,000 seeds \$383.12; 5,000 seeds and over \$361.16 per M.



Pepper - Chesapeake



A reliable, trusted source of Greenhouse Tomatoes since 1945

## HIGH TUNNEL INFORMATION

Tunnel Tech - [www.tunneltech.ca](http://www.tunneltech.ca)  
Haygrove <http://canada.haygrove.com>  
Cornell University, Ithaca NY USA 14853  
1-607-255-4568 (1789)  
University of Guelph, Guelph ON Canada N1G4Y2  
[www.ontario.ca/crops](http://www.ontario.ca/crops)  
1-877-424-1300





Hybrid Asparagus - Jersey Giant



Broad Windsor Long Pod



Pole Bean - Emerite



Pole Bean - Blue Lake

## ASPARAGUS

Asparagus is a perennial vegetable that thrives almost anywhere in Canada and throughout the USA as far south as southern Georgia. Select a well drained site where it will not interfere with annual crops. Protect the growing area with a heavy hay or straw mulch which should be pulled away in the spring. Each fall add a blanket of manure or compost as asparagus is a heavy feeder (4 lbs/2 kg of 5-10-10 per 100 sq ft/9 sq m). Plants are quite spindly and should not be harvested until the second year. A 50 ft/15 m row containing 35 hybrid plants should yield about 20-25 lbs/10-12 kg of spears by the third year. 4461 lbs per acre/5,000 kg per hectare.

**CULTURE:** Sow as early as possible. One packet should produce about 15 roots; Approx. 18,000 seeds should produce enough roots for an acre. Soak seed for 48 hrs. at 85-90°F/31°C, before sowing. Prepare a seed bed and sow rows 18-24 in/46-61 cm apart, 3-5 in/8-13 cm apart in the rows, about 1.5 in/4 cm deep. Don't bother to thin plants. Some radish seed mixed in helps to mark the rows and makes cultivation easier. Transplant the resulting roots the following spring. **HARVESTING:** By cutting conservatively the second year, heavy cutting is possible the third year. Begin cutting when tender spears are about 4-6 in/10-15 cm high, just before the scales at the tips begin to open. Snap spears at ground level or cut spears just below the ground. Snapping instead of cutting - helps limit the spread of fusarium by contaminated knives. End harvesting when the shoots are less than .5 in/13 mm in diameter (about July 1st) and allow shoots to form a bushy plant 5-8 ft/2 m high. Trim back to ground level in late September. **WEED CONTROL:** Use .5 lb/227 g active chemical/acre in spring and repeat treatment in September with a skid boom sprayer, between the rows. Do not use excessive amounts of weed controls - this will increase "winter kill" of the roots and severely reduce spring yields.

**1A MILLENNIUM F1 hybrid.** Replaces Viking KB3 with a high yielding Canadian all male hybrid. Because they are adapted for cold winters and cool springs, overwintering plants experience less winter kill than most US hybrids. Millennium fresh market spears are very uniform and have a very high "Rutin" content, a natural bioflavonoid which is believed to have anti-inflammatory properties. Moderate tolerance to Rust.

**1H JERSEY GIANT F1 hybrid.** Popular hybrid from Rutgers University - which is the most winter hardy of all the Jersey Hybrids. Medium to large 7-9 in/18-23 cm green spears have purple bracts. This high yielding, fine flavored all male hybrid is 7-10 days earlier and much harder than Jersey Knight. It has a good tolerance to fusarium wilt, crown rot and rust. All male plants produce spears, but do not produce seed - resulting in higher yields.

## SOY BUSH BEANS



Soy Bean - Beer Friend

**Culture:** Sow about the same time as you would lima beans (June 1st-15th) depending on your latitude. For far northern climates start seeds indoors in 2.25 in/6 cm peat pots. May 1st-15th. Transplant outdoors after danger of frost 5-8 in/13-20cm apart in rows 24 in/60 cm apart. Harvest green pods like limas for cooking. Roast dried beans like peanuts. High protein value without cholesterol build up. Average protein value is twice that of lima beans (16% picked fresh or 40% used dry). Plant fresh seed each spring for best germination.

**11B BEER FRIEND 70 days.** Early, large podded high yielding Japanese type. Likes cool conditions - sow May 15th, harvest July 1st. Dark green leaves, deep green pods with white pubescence, 2-3 seeds per pod. Long shelf life. Excellent taste salted and dried as a snack.

**11C BESWEET 2001 94 days.** One of the best flavored varieties of food grade, edible soy beans. Plants average 24 in/61 cm in height and produce extra large greenish yellow beans at approx. 1,100 seeds per lb. They are very high in protein and have a very high soluble sugar level (brix) averaging 13.2%. If pods are stored in cold storage, in air-tight containers, the beans will hold their sugar for 2 days. Use for tofu or dried and salted. Product of USA.

NEW	HYBRID ASPARAGUS (M=1,000 seeds)		# seeds per pkt	Pkt	250 seeds	1,000 seeds	10 M per M	50 M per M		
	1A	Millennium	10	4.25	38.65	97.03	91.46	89.61		
	1H	Jersey Giant	10	4.25	33.25	87.55	57.78	54.28		
POLE/BUSH BROAD BEANS BUSH KIDNEY, NAVY, SOY			Pkt	2 oz 57 g	½ lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb	500 lb @ per lb
5	California Red Kidney			1.85	2.95	4.10	2.45	1.97	1.58	1.46
9	Blue Lake			2.45	4.60	6.35	3.80	3.06	2.45	2.28
11B	Beer Friend	25	4.15	12.70	30.30	41.30	34.00	31.76	28.34	28.17
11C	Besweet 2001	25	2.50	4.20	10.05	13.70	11.25	10.54	9.40	9.35
26	Kentucky Wonder Green			2.50	4.55	6.30	3.75	3.01	2.42	2.25
27	Kentucky Wonder Wax			2.50	4.55	6.30	3.75	3.01	2.42	2.25
28	Scarlet Runner			3.00	5.60	7.75	4.65	3.71	2.98	2.77
30	Broad Windsor Long Pod			2.50	4.90	6.75	4.05	3.23	2.59	2.41
30B	Aquadulce			5.35	10.55	14.55	8.75	6.99	5.60	5.21
POLE GREEN BEANS (M = 1,000 seeds)			Pkt	250 seeds	1,000 seeds	10 M per M	50 M per M	100 M per M	500 M per M	
28A	Emerite UT		25	3.75	26.30	53.54	25.80	20.64	16.35	14.89

## POLE BEANS

One of the nice things about pole beans is that you can grow a lot of beans in very little space. Pole beans live up to their name. They will only grow vertically up poles or trellises. If you try to support them horizontally or leave them unstaked, they will wind around each other and choke each other out. They seem to grow faster up vertical strings than poles. Use rough poles or a trellis, keeping to a reasonable height of 6 ft/2 m, and place them where they will not cast a shadow on the rest of the garden. Two ounces of seed planted in 50 ft/15 m of 36 in/91 cm spaced hills will produce about 25 lbs/ 11 kg of beans. **CULTURE:** 2 oz/56 g sows 25 hills at 5-6 beans per hill; .5 lb/227 g will plant 100 hills. Sow 5 or 6 beans, 1 in/25 mm deep, around each, then thin to the 3 strongest plants. If you are using a fence for support, thin vines 6-8 in/15-20 cm apart. Pick frequently and keep well fertilized. 2 oz/56 g contains approx. 150-200 seeds. The color of each bean is indicated in the variety description. We list a number of UNTREATED BEANS for organic growers by signifying UT in the last lines of the description.

**28A EMERITE 53 days.** Medium green completely stringless long filet bean. Pods average 7.5 in/ 20 cm, very straight and smooth with that excellent bean flavor. Harvest over a three week period (8 or 9 pickings). Recommended for summer fresh market, PYO and plastic greenhouse fall culture. Yields 6.5 lbs/2.9 kg per sq.m/9 sq.ft. Black seed. Untreated seed.

**9 BLUE LAKE 55 days.** A straight, stringless, unusually smooth, dark green bean. Famous for its freezing and canning qualities. Pods are round, tender and meaty, 6-7 in/15-18 cm in length, on vigorous, heavy yielding plants. For untreated seed, order **UT9**. White seed.

**26 KENTUCKY WONDER GREEN 58 days.** (Old Homestead) An old favorite and still our most popular pole variety. Brittle, fibrous pods are 8 in/20 cm long, almost round and silvery green in color. Brown seed.

**27 KENTUCKY WONDER WAX 61 days.** Later-maturing than the green-podded strain, but the same quality, shape and size in butter-yellow pods. Brown seed.

**28 SCARLET RUNNER 65 days.** Brilliant scarlet flowers on 10-12 ft/3 m vines to cover arbors and fences. 6 in/15 cm tender green beans are excellent when cooked. Black seed. Approx. 400 seeds per lb.

## BROAD/FAVA BUSH BEANS

**CULTURE:** 1 lb/454 g will plant approximately 75 ft/23 m of row. Extra large lima-like beans love cold soil and must be planted early in the spring - late April or May, so that plants will mature in early summer when the days and nights are still cool. A British Isle favorite dish. 2 oz/56 g contains approx 35-40 seeds.

**30 BROAD WINDSOR LONG POD 65 days.** Broad, 8 in/20 cm light green pods contain 6 or 7 large, greenish white seeds. Upright, 24 in/60 cm plants. Use for dried shell beans, fresh market or freezing.

**30B AQUADULCE 65 days.** Larger pods 10 in/26 cm than Broad Windsor. Contains 7 or 8 big greenish seeds per pod. Vigorous 24 in/60 cm plants are very hardy. Use for fresh market, freezing or shell beans.

## KIDNEY BUSH BEANS

**CULTURE:** 1 lb/454 g will plant approximately 150 ft/46 m of row. See page 7 for Runner and Horticultural/Borlotto dry beans.

**5 CALIFORNIA RED KIDNEY 100 days.** Large, light red kidney-shaped beans. Our stock is quite hardy high yielding. Bush Plant. Brown seed. Untreated seed.





Bowie



Valentino



Inspiration

## GREEN BEANS BUSH

**SOWING RATE:** 2 oz/57 g sows 18 ft/6 m of row; 5 lb/227 g sows 75 ft/23 m; 60-80 lbs/27-36 kg per acre depending on variety. Most growers plan for 100,000-105,000 live plants per acre by sowing 110,000-115,000 seeds per acre @ 90% germ. **CULTURE:** Sow every 10 days - from May 20th (use treated seed for early sowings) providing the soil temperature is 60°F/16°C until July 30th. Untreated seed should not be planted until ground temperature reaches an average daytime temperature of 65°F/18°C (In our region (Niagara Falls) - June 10th). Space seeds 2-4 in/5-10 cm apart, in rows 24-30 in/61-76 cm apart. Sow beans fairly shallow - about 1 in/25 mm deep (1.5 in/3 cm maximum). Most commercial growers fertilize before sowing. Seed must not touch concentrated fertilizer. **GERMINATION:** Beans require a minimum soil temperature of 60°F/16 °C and a maximum of 75°F/24°C. They will not germinate properly if planted too deeply or too early in cold wet ground. **CULTIVATION:** Do not cultivate after a rain or too early in the morning when plants are wet. This causes Bean Rust, Anthracnose or Blight and helps to spread Mosaic. **TREATED SEED:** Due to the cold soil conditions during May and early June, which prevail in Canada and the Northern parts of the USA, we find it necessary to offer treated beans. "G" prefixed seed is treated with Cruiser™ seed treatment in addition to standard fungicide products. Contains the class ingredient neonicotinoids. Cruiser™ protects plants from a broad spectrum of seed, soil and foliar chewing and sucking insects to help get crops off to a healthy, vigorous start for a short period. Organic gardeners may choose from those varieties where we indicate that untreated seed is also available - these are marked **UT**. **MATURITY DATES:** Since beans are very sensitive to cool soil temperatures, all our days to maturity are calculated from germination to harvest. Just like sweet corn, colder clay loam soils can delay emergence on earlier 47-54 day varieties. On sandy loam or gravel soils, where heat units are higher, the dates should be accurate. Allow 5-7 days more on cold, wet soils. **SHIPPING BEANS S** have extra fibre to prevent breakage during the long journey to market and to keep their appearance (less lumpiness). They are never used for processing, freezing or canning, but can be used for the first and last sowings for PYO (pick your own) operations. Chain stores prefer this type - they stay "beautiful" for extended periods. This type can be machine harvested. **FRESH MARKET BEANS F** and **GOURMET BEANS PG** have less fibre and some very tender types will get lumpy fast, if you don't harvest on a regular basis during hot weather. **pvp** Plant variety protected.

## FLAT GREEN BEANS

**23C MAGNUM** 51 days. Very tender with straight flat, green pods averaging 7 in/17.5 cm in length. Similar to Greencrop. High yields. Upright plants are tolerant to CBMV. White seed. **F, PG**

**G23D ESERALDA** 56 days. Medium green flat pods average 8 in/20 cm in length. Plants hold pods higher than Greencrop. Tolerant to CBMV. White seed. **F, PG**

**23 GREENCROP** 55 days. The standard flat podded snap bean. Pods are half the width of most Romano types, but much longer and just as tender. Excellent flavor, 8 in/20 cm pods. Tolerant to Mosaic and CBMV. For untreated seed, order **UT23**. White Seed. **F**

## FRESH MARKET AND GOURMET BEANS

**G16F OAKLEY** 55 days. Upright plants carry dark green 4.5 in/11.5 cm 100% 2 sieve pods well off the ground. Tolerance to CBMV, BCTV, Rust and Brown Spot. Some HB tolerance. Very uniform, outstanding flavor, texture. Patented Variety. White Seed. **F, PG, S**

**9B BUSH BLUE LAKE 274** 55 days. Unique flavor and slow fiber and seed development in the pod make this strain popular for fresh market or processing. Dark green, round pods average 6 in/15 cm, dwarf bushy plants are tolerant to BV-1; NY-15. White seed. **S, F, PG**

**20J JADE II** 60 days. Replaces Speculator and regular Jade with very dark green 5-6 in/12-15 cm 4 sieve oval/round pods. Excellent for three different purposes - freezing, shipping or fresh market. Good tolerance to CBMV. White seed. **S, F, PG**

## FRESH MARKET AND SHIPPING

**G15N BA0999** 50 days. An excellent medium green, 5.5 in/14 cm 65% - 1 to 4 sieve; 35% - 5 to 6 sieve, mechanical harvest Storm type for first early sowings only. Good tolerance to CBMV, intermediate tolerance to Brown Spot. High yield potential and broad regional adaptability. White Seed. **S, F**

**G15K VALENTINO** 51 days. Quality, low fibre, 3 sieve, Grenoble type for fresh market. Straight dark green pods are well positioned on the plant and set well in hot weather. Tolerant to CBMV. White seed. **pvp, F, PG, S**

**18B PROVIDER** 52 days. Standard variety for cool soil, early or late sowings. Medium green 6 in/15 cm round pods, concentrated set for machine harvest. Tolerant to CBMV, NY-15 and PM. Black seed. **S**

**G15H LEWIS** 53 days. Medium dark green, straight pods average 5.5 in/14 cm in length, 3-4 sieve. Upright plants have an excellent disease package with strong tolerances to CBMV; BCTV; HB; Rust and intermediate tolerance to Brown Spot. White seed. Patented Variety. **S, F**

**G15G BRONCO** 53 days. Popular fresh market, long distance shipper. Round, straight 5.5 in/14 cm pods are medium green. Tolerant to CBMV. White seed. **S, F**

**15S PONY EXPRESS** 53 days. Deep green 5.25 in/13.5 cm round, straight pods are slightly darker than Bronco. Determinate plant has strong roots. Tolerant to CBMV, BCTV, Brown Spot. White seed. **S, F**

**G15M WYATT** 54 days. Dark green 5.7 in/14.5 cm predominately 4 sieve pods. Plants have an excellent bacterial disease tolerance to CBMV, HB, Brown Spot, Curly Top and Common Blight. White seed. **F**

**20 STRIKE** 54 days. Popular continuous set type for "Pick-your-own" market. High yields of 5 in/13 cm, round green pods. Tolerant to CBMV. White seed. **S, F**

**G20K HICKOK** 54 days. A longer lasting dark green gourmet bean with small 3 and 4 sieve pod interiors. Upright plants keep pods clean. Tolerant to CBMV, Rust and Curly Top Virus. White seed. Patented Variety. **S, F**

GREEN BEANS BUSH		2 oz 57 g	1/2 lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb	500 lb @ per lb
9B	Bush Blue Lake 274	2.25	3.85	5.35	3.20	2.55	2.05	1.90
18B	Provider	2.25	3.75	5.20	3.10	2.49	2.00	1.85
23	Greencrop	2.25	3.80	5.25	3.15	2.51	2.01	1.87
GREEN BEANS BUSH (M = 1,000 seeds)		250 seeds	1,000 seeds	10 M per M	50 M per M	80 M per M	500 M per M	1,000 M per M
G15G	Bronco	5.35	10.88	5.24	4.20	3.32	3.03	2.73
G15H	Lewis	6.20	12.58	6.06	4.85	3.84	3.50	3.16
G15K	Valentino	5.75	11.73	5.65	4.52	3.58	3.26	2.94
G15M	Wyatt	6.60	13.47	6.49	5.19	4.11	3.75	3.38
✓ G15N	BA0999	6.25	12.68	6.11	4.89	3.87	3.53	3.18
15S	Pony Express	5.45	9.06	4.37	3.49	2.77	2.52	2.27
G15U	BA 0958	6.25	12.69	6.11	4.89	3.88	3.53	3.18
✓ G16F	Oakley	6.25	12.78	6.16	4.92	3.90	3.55	3.21
20	Strike	5.20	10.57	5.09	4.07	3.23	2.94	2.65
G20C	Caprice	6.00	12.20	5.88	4.70	3.73	3.39	3.06
G20E	Pike	6.15	12.53	6.04	4.83	3.83	3.49	3.15
20J	Jade II	5.25	10.66	5.14	4.11	3.26	2.97	2.75
G20K	Hickok	6.10	12.41	5.98	4.78	3.79	3.45	3.11
G20R	Bowie	6.25	12.71	6.12	4.90	3.88	3.53	3.19
G20S	Inspiration	5.30	10.84	5.22	4.18	3.31	3.02	2.72
G20T	Frontier	6.25	12.75	6.14	4.91	3.89	3.55	3.20
23C	Magnum	8.55	17.40	8.38	6.71	5.31	4.84	4.36
G23D	Esmeralda	13.10	26.68	12.86	10.28	8.15	7.42	6.69
G25L	Prevail	5.30	10.79	5.20	4.16	3.30	3.00	2.71





SV1003GF



Roma II



Romano Gold



Royal Burgundy

## WAX BEANS BUSH

**7 ROCDOR** 50-53 days. High class, extra long 6.75 in/17 cm straight, early Sungold type. Harvest young for best quality. For PYO, canning, freezing and fresh market. Tolerant to CBMV and ANTH. Black seed. **F, PG**

**10J SUNBURST** 51 days. Early wax bean to fill in rain delays and sowing gaps. Smooth 5.5 in/14 cm pods have some tolerance to CBMV and HB. White seed. **F**

**10 GOLD RUSH** 53 days. Standard heavy yielding, main season yellow. Round, 5.75 in/14.5 cm pods (no green tips). Pods are slightly larger than Gold Mine and have enough fibre to hold their shape for short distance shipping, fresh market or pick your own. Hand pick or machine harvest. CBMV tolerance. White seed. **F, PG**

**10A GOLD MINE** 53 days. Shorter 5 in/13 cm, 4-5 sieve bright yellow type with less fibre for processing - PYO, fresh market, machine harvest. CBMV, Brown Spot and some HB tolerance. For untreated seed, please order **UT10A**. White seed. **F, PG**

**10H GOLD DUST** 56 days. Quality yellow pods set high on upright plants. Slightly longer and larger sieve size than Gold Mine. Round pods average 5.25 in/13.5 cm in length with a higher 35% of 5 sieve beans. Tolerant to CBMV and Brown Spot. Hand pick or machine harvest. White seed. (EX15340806) **F, PG**

**G10E SV1003GF** 56 days. Newest main season wax bean with a good tolerance to CBMV and an intermediate tolerance to Bacterial Brown Spot. Use for cut beans and fancy packs. Medium size, upright plant, straight yellow pods are high quality. Sieve size average 3 to 4 providing nice slim 5.25 in/14 cm pods with good shelf life. Hand pick or machine harvest. White seed. **pvp, F, PG**

## WAX BUSH ROMANO

**5G ROMANO GOLD** 56 days. Dwarf, bushy upright plants hold loads of 4-5.5 in/10-14 cm long flat 3/8 in/1 mm thick, light butter yellow pods. Approx. 5-6 beans per pod. Tolerant to CBMV, Rust, White Mold. White seed. **pvp, F**

## GREEN BUSH ROMANO

**5J NAVARRO** 53 days. Extra long 7 in/17.5 cm medium green very straight pods mature 5 days earlier than Roma II. Fleshy pods with little fibre. Plants set well in hot weather. Excellent for roadside stands and Italian markets. Tolerant to CBMV and Halo Blight. White seed. **pvp, F, PG**

**1G ROMA II** 58 days. Medium green flat, wide 6 in/15 cm stringless pods have distinctive flavor. For roadside or Italian markets. Tolerant to PRSV, BV-1 and Rust. White seed. **F, PG**

## NOVELTY BEANS

**21 ROYAL BURGUNDY** 51 days. Upright plants yield long straight, round purple pods with bright green foliage. Purple pods turn bright green after 2 minutes of boiling, a "built in" blanching timer for freezing! For untreated seed, order **UT21**. Brown seed. **F**

## HORTICULTURAL/BORLOTTO BEANS

**CULTURE:** Horticultural types change colors at different stages of maturity. Picked in the early stages, 30-40 days from seeding, flat green pods are used like Lima beans. The fully mature pod will become slightly lumpy and change from green to red, with creamy yellow streaks. These are sold or used as dried beans in Sept/Oct. An interspecies cross between pole and bush types, it will always throw runners with its more vigorous bush plant habit.

**6 FRENCH HORTICULTURAL BUSH** 68 days. Although this strain produces lots of runners, it is not usually staked. Pods are 6-8 in/15-20 cm long, nearly straight, with splashes of red and yellow. For untreated seed, order **UT6**. Beige/Brown seed.

**6C TEGGIA** 68 days. Improved Volcano type with better red/yellow contrast at full maturity. Growers report better 7 in/17.5 cm pod length, stronger bush plants without runners and improved yields than other Borlotto or Horticultural types. Rust and CBMV tolerance. Buff/red seed. 100 seeds \$5.15; 500 seeds \$16.30; 1,000 seeds \$26.20; 10,000 seeds @ \$12.62 per M; 50,000 seeds @ \$10.10 per M; 80,000 seeds @ \$8.00 per M; 500,000 seeds \$7.29 per M; 1,000,000 seeds \$6.57 per M.

## POLE LIMA BEANS

**29 KING OF THE GARDEN** 85 days. Better quality than bush types if properly staked and planted. A vigorous climber on fence or trellis. 8-10 ft/2-3 m tall at maturity. Pods are broad, 4-6 in/10-15 cm long, smooth and flat. For untreated seed, order **UT29**. White seed.

**PVP Plant Variety Protected**  
Seed must not be reproduced for sale without permission of the originator.

## BUSH LIMA BEANS

**CULTURE:** 2 oz/57 g (approx. 50 seeds) sows 20 ft/6 m of row; lb/454 g will plant 100-150 ft/31-46 m depending on seed size. Space rows 30 in/76 cm apart, sow beans 5 in/13 cm apart and 1.5 in/4 cm deep. Thin vines to 8 or 12 in/20 or 30 cm apart - they need lots of room. Will not germinate in cold, wet soil. Sow June 10th.

**3A EASTLAND** 70 days. The best baby lima for short season areas. Seeds have good cold soil tolerance. Plants and pods are similar to Geneva, but 10 days earlier. Heavy yields of 3 in/8 cm pods. Tolerant to downy mildew. White seed. **F, PG**

**2 FORDHOOK BUSH** 242 70 days. Standard bush lima. Tolerant to heat, pods 3.5-4 in/10 cm long, with 3 or 4 thick beans per pod. Excellent flavor. For untreated seed, order **UT2**. White seed. **F, PG**



French Horticultural Bush

NEW	WAX BEANS BUSH (M = 1,000 seeds)		250 seeds	1,000 seeds	10 M per M	50 M per M	80 M per M	500 M per M	1,000 M per M
	7	Rocdor	7.25	14.78	7.12	5.70	4.52	4.11	3.71
	10	Gold Rush	5.30	10.82	5.21	4.17	3.30	3.01	2.71
	10A	Gold Mine	5.30	10.82	5.21	4.17	3.30	3.01	2.71
	G10E	SV1003GF	6.25	12.69	6.11	4.89	3.88	3.53	3.18
	10H	Gold Dust	5.45	11.07	5.33	4.27	3.38	3.08	2.78
	10J	Sunburst	5.55	11.36	5.47	4.38	3.47	3.16	2.85
	ROMA BEANS		250 seeds	1,000 seeds	10 M per M	50 M per M	80 M per M	500 M per M	1,000 M per M
	5J	Navarro	7.65	15.55	7.49	5.99	4.75	4.33	4.04
	5G	Romano Gold	11.30	23.02	11.09	8.87	7.03	6.40	5.78
	NOVELTY/ROMA BEANS		2 oz 57 g	1/2 lb 227 g	10 M 454 g	50 M per lb	80 M per lb	500 M per lb	1,000 M per lb
	1G	Roma II	2.30	4.50	6.20	3.70	2.97	2.38	2.21
	21	Royal Burgundy	2.25	4.45	6.15	3.70	2.95	2.36	2.20
HORTICULTURAL/BORLOTTO BEANS									
	6	French Horticultural Bush	3.05	5.95	8.25	4.95	3.95	3.17	2.95
LIMA BEANS									
	2	Fordhook Bush 242	2.60	5.15	7.10	4.25	3.41	2.73	2.54
	3A	Eastland	2.05	3.50	4.85	2.90	2.32	1.86	1.73
	29	King of the Garden (Pole)	2.30	4.50	6.25	3.75	2.99	2.40	

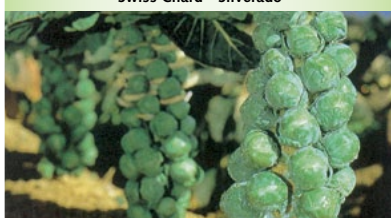




Harvest Sprouts After A Frost For Best Taste



Swiss Chard - Silverado



Jade Cross



Swiss Chard - Bright Lights



Swiss Chard - Peppermint



Swiss Chard - Celebration

## HYBRID BRUSSELS SPROUTS

**CULTURE:** 1 pkt. of hybrid seed will produce about 50-75 plants; oz/28 g 3,000 plants; acre requires approx. 7,200 plants. For transplanted crops, sow outdoors May 10th-25th, as thinly as possible (3 or 4 seeds per in/25 mm) .25 in/6 mm deep. Cover seeds with fine soil. Transplant from seedling beds to the field in 4 or 5 weeks, when plants are 5 in/13 cm tall. Space transplants 2 ft/60 cm apart in rows 3 ft/91 cm apart. **HARVEST:** As sprouts form at the base of the plant, remove lower leaves and stems. Pinch out the center or growing point, at the top of the plant about Sept. 15th. This encourages rapid development of the upper sprouts. Plants are harvested from the bottom up as the sprouts reach about 1 in/25 mm in diameter in approx. 4-5 pickings. European hybrids may be harvested in one or two picks. Sprouts harvested after moderate freezes are much sweeter in taste. Twenty five plants should produce about 25 lbs/11 kg of sprouts. Germ. 78%-88% in soil. **MATURITY DATES:** Calculated from transplants to harvest.

**45 JADE CROSS** 95 days. Earlier, shorter plant, dark green oval sprouts.

**45A JADE CROSS E** 97 days. Taller version of Jade Cross with better sprout spacing. Best hybrid for bedding plants.

**44G GUSTUS** 117 days. Replaces Oliver with a dark green, round/globe shaped sprout which averages 1.18 in/3 cm in size. Compare to Franklin and Acustia. Excellent choice for Canada and Northeastern USA.

**44L CAPITOLA** 125 days. A top variety for sprout quality in the USA. Used for fresh market, processing and machine harvesting.

**44H AURELIUS** 140 days. Round, very uniform, dark green sprouts average 1.375 in/8 cm in size. Compare to Cumulus and Valencia. Good shelf life. High yields.

**44F CUMULUS** 148 days. Harvest in October or early November from a mid May, outdoor sowing. An improved Rowena type with a ring count of 17-19. Round medium green sprouts average 1-2 in/2.5-5 cm.



Cumulus



Jade Cross E



Gustus

NEW	HYBRID BRUSSELS SPROUTS		# seeds	Pkt	1,000	10 M	25 M	50 M	100 M
	M = 1,000 seeds		per pkt		seeds	per M	per M	per M	per M
	44F	Cumulus	50	4.25	25.43	22.68	21.47	16.85	15.96
	44G	Gustus	50	4.25	25.06	22.35	21.16	16.60	15.73
	44H	Aurelius	50	4.25	25.92	23.11	21.88	17.17	16.27
	44L	Capitola	50	4.25	25.09	22.37	21.18	16.62	15.75
	45	Jade Cross	50	2.70	8.96	7.99	7.56	5.93	5.62
	45A	Jade Cross E	50	2.70	8.38	7.47	7.07	5.55	5.26
	SWISS CHARD		# seeds	Pkt	oz	¼ lb	lb	5 lb	100 lb
			per pkt		28 g	113 g	454 g	per lb	
	40	Burpee's Rhubarb Chard	150	2.70	4.75	9.70	16.35	15.50	13.97
	41B	Silverado	150	2.70	7.45	13.70	21.80	20.25	
	SWISS CHARD		# seeds	Pkt	1 M	5 M	25 M	100 M	
		M = 1,000 seeds	per pkt			per M	per M	per M	
	41F	Bright Lights	150	3.50	10.60	6.99	6.13	4.93	
	41H	Peppermint	150	3.25	7.55	4.97	4.36	3.51	
	41J	Celebration	150	3.25	7.55	4.97	4.36	3.51	
	NOVELTY BEETS		# seeds	Pkt	oz	¼ lb	½ lb	lb	5 lb @
			per pkt		28 g	113 g	227 g	454 g	per lb
	42C	Golden	150	4.25	16.55	39.85		117.25	108.35
	NOVELTY BEETS		# seeds	Pkt	1 M	5 M	25 M	100 M	
		M = 1,000 seeds	per pkt			per M	per M	per M	
	42B	Touchstone Gold	150	3.95	11.22	7.39	6.49	5.50	

## SWISS CHARD

**CULTURE:** Pkt. sows 15-25 ft/5-8 m of row; oz/28 g sows 100 ft/31 m of row; 6 lbs/3 kg per acre. Sow seed .5-.75 in/13-19 mm deep, thin plants to 4 in/10 cm apart, pulling alternate plants for early summer use. Leaves are cooked like spinach, mid ribs like asparagus and outer leaf stalks make delicious fritters. Plants withstand hot weather, are easy to grow and suitable for freezing. Seed size varies.

**41J CELEBRATION** 55 days. Semi savory dark green glossy leaves with vibrant multicolored petioles which include red, yellow, pink, orange and white colors on highly uniform plants which average 20 in/50 cm in height. Also an excellent source for 30 day "baby leaf chard" with tiny pastel shaded petioles in the above colors that add color to salads.

**41H PEPPERMINT** 60-65 days. Unique colored petioles with distinctive pink and white striped lower stems. Dark green leaves are fully savoyed. Use mature 20 in/50 cm plants for bunching or 33 day baby leaf chard with tiny bicolor stems for salads.

**41B SILVERADO** 55 days. More compact 16 in/40 cm plant with dark green, deeply savoyed, glossy leaves and broad white stems. Excellent taste, slow to bolt. Replaces standard large white ribbed types.

**41F BRIGHT LIGHTS** 55 days. A blend of unique Swiss Chard colors including yellow, gold, pink, crimson, orange, purple, white, green and white stripe with several intermediate pastel shaded petioles - express themselves in the seedling stage and become more intense after 5 weeks in the greenhouse or outdoors. Mature plants average 20 in/50 cm. Green savoyed leaves. Colors fade when cooked.

**40 BURPEE'S RHUBARB CHARD** 60 days. Deep crimson stalks, heavily savoyed green leaves.

## NOVELTY BEET

**42B TOUCHSTONE GOLD** 55 days. Bright golden color at maturity with green petioles and light green leaves. Interiors are gold slightly zoned. Retains color and sweet flavor when cooked. Uniform round roots, smooth shoulders.

**42C GOLDEN** 65 days. Bright golden orange round novelty beet with refined shoulder, very smooth skin and deep golden interior color. Leaves are light green with attractive yellow baby stems that turn green at maturity. Retains mild sweet flavor and color when cooked (does not bleed interior color like red beets when cooked). Both tops and beets are delicious! Use as a baby beet or regular size for fresh market. Stems are attractive in salads.



Beet - Touchstone Gold





Kestrel



Red Ace



Solo



Detroit Supreme

## STOKES BUNCHING AND CANNING BEETS

The beet or beetroot, as it is known in Europe, will thrive in all parts of Canada and the U.S.A. Since pests and diseases are not major concerns, it is relatively easy to grow, and can be cropped in succession every 2 weeks, from early spring (frost will not harm the seed or young plants) until midsummer. Beets become too tough and stringy if sown between July 15 and August 15. Late summer sowings are usually seeded about 10 weeks before late fall frosts. The days begin getting shorter in early Sept. and you should allow plenty of time for late crops to mature properly. Although average soil will grow excellent beets, the best crops seem to thrive in rich sandy loam, with a pH of 6.5.

**CULTURE:** Pkt. sows 15-25 ft/7 m of row; oz/28 g 100 ft/30 m; 6-8 lbs/3-4 kg per acre (slightly less if precision seeded). For a continuous supply of bunching beets sow seed every 2 weeks from early April till July 15th. On sandy loam, sow .5-.75 in/13-19 mm deep in rows 12-14 in/30-36 cm apart. When seedlings reach 2 in/5 cm in height, thin to 3 in/8 cm apart in the row. On muck or peat soils, sow at 12 seeds per ft/30 cm or row. Space rows 12-16 in/30-41 cm apart using precision seeders for better uniformity. For smaller sized canning or pickling beets, double the quantity of seed, using a spreader or scattering shoe attachment on your seed drill. Storage or processing beets should be sown about 10 weeks before late fall harvesting. **BABY BEETS** - use Kestrel.

**GERMINATION:** Most seed will germinate in 4-10 days, at 45-70°F/7-21°C soil temp. **INTERIOR COLOR:** Unsettled weather conditions and checks in growth will cause "white rings" in the best of strains. **SIZED SEED:** Most of our commercial strains of beet have been debearded (rubbed smooth) for easier sowing and sized to 1/64 in/0.4 mm increments which is suitable for most precision seeders. Seed size varies. **SPACING:** The number of live seeds per foot, sown by the grower WILL control the size and shape of the beet at harvest. **WEATHER STRESS:** Any severe temperature stress or lack of water, flooding etc., at the 5th leaf stage will cause poor color and interior white rings. **TREATED SEED:** Most of our seed is treated with a fungicide to aid germination in cold spring ground. For **UNTREATED SEED** order UT37 or UT38. **BOLTING TO SEED:** Sudden weather or temperature stress will cause early spring or late fall crops of beets to send up premature seed stalks. The same results can also be caused by sudden release of fertilizer or weed controls, during heavy rain periods - followed by hot weather. One of the initial signs of stress during the 5th or 6th leaf stage, will be white rings in beet interiors.

### HYBRID BEETS

**32D SOLO** 50 days. F1 hybrid provides the ability to singulate plants while direct sowing results in reduced thinning expenses and greater uniformity. Round dark red roots have good interior color, are VERY sweet (12-15% brix) with dark green 14 in/36 cm tops. For bunching or processing. Earlier than Moneta. Tolerant to CLS, mildew and root rot.

**32 RED ACE** 53 days. An F1 hybrid Detroit type. Full globe shape, extremely smooth exteriors, deep red interiors, no zoning. Shorter 14 in/36 cm tops are green with some red tinges. Tolerant to CLS, PM, DM, DR, RZ and bolting. Unusual honey-sweet flavor is great for fresh market or processing.

**35C KESTREL** 53 days. Rounded globe shaped dark red beets shape up early into smooth round baby beets. Have small crowns without zoning and refined tap roots. Use for early bunching. Tolerant to CLS, PM, DM, DR, RZ and bolting. Bright green, short 12 in/30 cm, semi glossy tops. Compare to Action.

**32E EAGLE** 54 days. Darkish red interior color has no visible zoning during normal weather conditions. Small roots are very uniform for size, shape and maturity - an excellent baby beet hybrid. Medium green tops are of medium height. BEC 113

**32B MERLIN** 55 days. Extremely uniform round shaped beet has a refined taproot and very smooth skin. Leaf color stays dark glossy green throughout the growing season with little or no purple pigment. Erect tops are tall at 15-17 in/38-43 cm and are tolerant to DM, CLS, and drought. Roots have refined crowns, dark red interiors and a good tolerance to zoning during drought and adverse weather. Very high brix sugar content of 14-15%.

### OPEN POLLINATED EARLY BEETS

**34A DETROIT SUPREME** 59 days. An improved Detroit Medium Top type for the quality market and commercial canning. Same green leaves with maroon tinge as regular Detroit strains. Smooth globe shape.

**38 RUBY QUEEN** 60 days. Leading canning variety in the northeast. Smooth, uniform beet. Early, round roots with small crowns and fine taproots. Deep red interiors. For untreated seed, order **UT38**. Limited.



Merlin

### BEET TOPS

**33D CHIOGGIA GUARDSMARK** 60 days. Italian heritage novelty. Light red roots. Contrasting purple and white interiors. Sweet flavor. Flat globe shape. Short green tops. Use for salads. Not a commercial type.

**33F BULL'S BLOOD HEIRLOOM** 64 days. Unique 12 in/30 cm dark red tops are used in salads - nice flavor. Medium sized round red roots have red and white interior rings. Not a commercial type.

**37 GREEN TOP BUNCHING** 65 days. Multipurpose strain provides bright red, round roots and bright green, medium tops. Use for early summer or late fall harvests. For untreated seed, order **UT37**.

### CYLINDRICAL BEETS

**35F CARILLON** 60 days. Extra long cigar shaped O/P. 12 in/30 cm long, 5.5 in/6 cm wide. Internal color is dark red without white rings - makes beautiful slices. Stores well, strong foliage is suitable for mechanical harvests.

**35E RODINA** 58 days. F1 hybrid. Cigar shaped beet. Uniform shape makes Rodina superior for sliced beet production. Hybrid vigor provides early VERY uniform plant stand, top yields and outstanding 6x2 in/15x5 cm very smooth, dark red, blunt cylinder beets at 6-7% brix sugar content. Moderately tolerant to rhizoctonia, drought, DM, PM and CLS. Use for bunching and slicing. Interiors are deep red.



Carillon

NEW	BUNCHING AND CANNING BEETS	# seeds per pkt	Pkt	oz	1/4 lb	1 lb	5 lb @	10 lb @	25 lb @	100 lb @
				28 g	113 g	454 g	per lb	per lb	per lb	per lb
	33F Bull's Blood O/P	150	2.95	6.25	8.55	18.95	18.05	17.20	16.07	15.14
	34A Detroit Supreme	150	2.50	4.25	5.60	12.40	11.80	11.25	10.53	9.72
	37 Green Top Bunching	150	2.50	3.80	5.35	11.85	11.25	10.75	10.04	9.27
	38 Ruby Queen	150	2.50	3.75	5.00	11.10	10.55	10.05	9.40	8.68
	<b>BEETS</b> (M = 1,000 seeds)	<b>1,000 seeds</b>	<b>5 M per M</b>	<b>10 M per M</b>	<b>50 M per M</b>	<b>100 M per M</b>	<b>500 M per M</b>	<b>1,000 M per M</b>		
	32 Red Ace Hybrid	2.15	1.27	0.95	0.90	0.86	0.80	0.76		
	32B Merlin Hybrid	2.25	1.40	1.04	0.99	0.95	0.88	0.83		
	32D Solo (mono germ) Hybrid	3.58	2.29	1.71	1.62	1.55	1.45	1.36		
	32E Eagle Hybrid	2.25	1.40	1.04	0.99	0.95	0.88	0.83		
	33D Chioggia Guardsmark	2.98	1.91	1.42	1.35	1.29	1.21	1.14		
	35C Kestrel Hybrid	2.25	1.40	1.04	0.99	0.95	0.88	0.83		
	35E Rodina Hybrid	2.54	1.63	1.21	1.15	1.10	1.03	0.97		
	35F Carillon O/P	1.35	0.86	0.64	0.61	0.58	0.55	0.51		





Castle Dome



Bay Meadows



Green Magic



Emerald Crown



Aspacroc

## EARLY HYBRID BROCCOLI

**CULTURE:** 5,000 plants per oz/28 gr; 7,200 plants per acre (approx. 90,000 - 120,000 seeds per lb/454 gr). Broccoli matures quickly, therefore early and late crops are possible. **EARLY CROP:** Sow seed indoors in flats from March to early April. .25 in/6 mm deep, cover lightly. Transplant into 2.25 - 3 in/6 - 8 cm Jiffy Strips or space the plants 2 in/5 cm apart in flats, when the plants are 5 or 6 weeks old or 5 in/13 cm tall. Set plants outdoors in late April or early May. Space 1.5 ft/46 cm apart in rows 3 ft/91 cm apart. **LATE CROP:** Over 90% of all crucifer growers have gone back to using transplants because of irregular germination caused by soil crusting. This will cause poor uniformity of head size and wide variances in harvesting periods. Sow into seed beds outdoors in early May to the first week of June, as thin as possible. Transplant at about the 4th or 5th leaf stage in rows 2.5-3 ft/76-91 cm apart, (plants 12-24 in/30-60 cm apart) depending on variety. Some late varieties can be spaced closer (6-8 in/15-20 cm) in proper soils. **HARVEST:** Central heads before they pass their prime (6-9 in/15-23 cm) before buds begin to turn yellow. Our suppliers have screened their seed for seed borne diseases and have provided us with lab tests on each lot. We can supply copies of a lab report at \$5.00 each. **SIZED SEED:** Our suppliers are now grading/sizing their seed lots by specific seed counts. **SEEDLING PHASE:** About 4 weeks to sprout and reach 4 leaf stage. Transplant at 5 leaf stage. **PLANT FORMATION STAGE** is between the 6th and 11th leaf stage, during the 6th and 7th week. **DEVELOPMENT PHASE:** Central curd forms at 8th week until mature at 12th week providing about 20 leaves per plant. Plant stress at any of the critical stages or improper spacing will ruin the crop. Most varieties produce good quality heads during cool weather, but only a few are productive above 85°F/29°C. Deeper "single hook" cultivation between the rows after heavy rains helps aerate the soil and promote root growth. Broccoli needs water once a week, but will die if roots are flooded for 24 hours.

**51K GOLIATH** 75 days. Huge 10-12 in/25-30 cm heads surpass Premium Crop in size and tonnage and may be harvested as single heads or quartered and bunched. Short bushy plants average 15 in/38 cm in height. Heads are medium green, fine budded, crowned. Plants produce side shoots in Sept. Do not crowd. Exclusive.

**50P CASTLE DOME** 75 days. Used primarily for extra early crown cuts in late spring or early summer. Compact plants have good holding ability and offer good heat tolerance as well as cold vigor. Uniform, medium green, heavy, deep domed heads have small, tight beads. Good tolerance to hollow stem and Brown Bead.

**50T LIEUTENANT** 80 days. Mid-early maturing type, adapted to warm seasons. Erect plants with minimal side shoots, medium size main stems with reduced hollow stem. Smooth crowns have minimal bract leaves during hot weather. Dark green crowns with medium sized beads and minimal cat eye.

**51R EVEREST** 83 days. Our best medium sized, 6 in/15 cm, dome shaped, small beaded California type for Northeastern fall harvests. Everest has a better tolerance to Downy Mildew than any main season broccoli. For fresh market or processing, medium size stems.

**51Z BAY MEADOWS** 85 days. Use for early summer or mid summer harvests. Medium sized wide dome shaped head with a fine bead size and nicely shaped stems with little trim. Heads average 6.5 in/16.5 cm. Holds well in summer heat. Use for both Crown Cuts and bunching. Large open plant.

**50U EMERALD CROWN** 88 days. Very uniform, tight, heavy, dome-headed variety with small dark blue-green beads on a compact plant. Recommended for late summer (warm days, cool nights). Used primarily for high quality, high yielding crown cuts with a short trim. Tolerant to Anthocyanin (purpling heads). Patented Variety.

NEW	HYBRID BROCCOLI (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5M per M	10M per M	50M per M	100M per M	500M per M
✓	UT48L Aspacroc	75	5.75	52.74	47.38	45.53		LIMITED	
	50 Greenbelt	75	3.00	8.06	7.24	6.95	5.07	4.94	4.53
	50F Ironman	75	3.20	14.90	13.39	12.86	9.37	9.14	8.15
	50J Emerald Pride	75	3.00	9.17	8.24	7.92	5.77	5.63	4.94
	50L Diplomat	75	3.00	9.35	8.24	7.92	5.77	5.63	4.94
	50M Green Magic	75	2.70	9.69	8.71	8.36	6.09	5.94	5.30
	50P Castle Dome	75	2.95	11.10	9.97	9.58	6.98	6.81	5.98
	50Q Imperial	75	2.95	9.86	8.86	8.51	6.20	6.05	5.32
	50R Gypsy	75	2.95	9.95	7.94	7.63	5.56	5.42	4.83
	50T Lieutenant	75	2.95	11.74	10.54	10.13	7.38	7.20	6.42
	50U Emerald Crown	75	2.90	11.02	9.90	9.51	6.93	6.76	5.94
	50V Tahoe	75	3.00	8.57	7.70	7.40	5.39	5.26	4.82
	50W Emerald Jewel	75	2.70	11.02	9.90	9.51	6.93	6.76	6.03
	51K Goliath	75	2.70	4.13	3.71	3.56	2.60	2.53	2.32
	51R Everest	75	3.00	9.78	8.79	8.44	6.15	6.00	5.27
	51Z Bay Meadows	75	2.70	10.13	9.10	8.74	6.37	6.21	5.46
	BROCCOLI O/P & RAPINE	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb		
	49B Sorrento (Spring Raab)	250	2.75	13.75	27.20	67.90	53.30		
	49E Zamboni (Spring Raab)	250	2.75	14.30	28.50	71.20	55.90		
	53 Italian Sprouting	250	2.45	3.45	5.55	13.85	10.85		

## MAIN SEASON HYBRIDS

Main season varieties are not recommended for early summer harvests. Spacing is critical. Fall maturities vary with daylength.

**50M GREEN MAGIC** 90 days. Use summer or fall. Medium sized semi-dome dark green heads with medium small beads – good uniformity and holding ability during summer heat. Use for crown cuts and side shoot production. Tolerant to Downy Mildew.

**50 GREENBELT** 93 days. A mid-season type with a long attractive stem, an upright, domed large head and small/medium green buds. Provides good head weight during cool weather. For fresh market, bunching and processing.

**50J EMERALD PRIDE** 95 days. Dark green stems and very good heat tolerance make this hybrid an excellent choice for fast food or processor use in the Northeast. Nice head shape, medium beads, DM tolerance. Use for fresh market, bunching or freezing.

**50R GYPSY** 97 days. Smooth dome heads with good holding ability in warm weather. Medium size beads, 6 in/15 cm heads, uniform plants, DM tolerance. Use for fresh market, bunching or crown cuts. Patented Variety.

**50W EMERALD JEWEL** 100 days. Use for late fall harvests. This is a beautiful variety – small beaded, smooth headed, clean-stemmed crown cut. Intermediate tolerance to some races of Club Root.

**50L DIPLOMAT** 100 days. Matures with Decathlon. Suitable for bunching, crown cut or fresh market sales. Blue-green heads are semi dome shaped with medium sized beads. Tolerant to heat, cold and DM. US pat.# 5,945,582

**50Q IMPERIAL** 102 days. Performs best during long daylength conditions, in the Northeast, under moderate heat. Heads are semi-dome shaped with tight, small dark green beads. Use for bunching, crown cuts, or processing. Patented Variety.

**50V TAHOE** 104 days. Medium sized plants provide excellent smooth, dense, high domed heads with small to medium sized uniform dark green beads. For crown cuts or florets.

**50F IRONMAN** 105 days. A CMS version of Iron which matures with Marathon. Plants are easy to work with and harvest. Heads are solid, deep dome shaped and provide high quality crown cuts, with less cat-eye and hollow stems.

## BABY BROCCOLI

**NEW UT48L ASPABROC** 50-60 days from transplants. Resembles broccoli raab with an asparagus-like stem, mild tasting. Plants produce tiny broccoli heads in 50 days from transplant plus 3-5 side shoots in 10 days. Continues producing heads for 4 weeks. Famous new product in grocery stores and restaurants. **Limited.**

## OPEN POLLINATED BROCCOLI

**53 ITALIAN SPROUTING (Calabrese)** 80 days. Produces heavy yields of large central heads and medium sized laterals, early in the season. O/P. For untreated seed order **UT53.**

## RAPINE/RAAB

**49B SORRENTO** 55 days. Extra early spring Raab type. Dime size, delicious buds, no central head, well branched mustard-like plant.

**49E ZAMBONI** 70 days. Tasty turnip leaf Raab with a larger bud and more uniform plant than the traditional Rapine or Spring Raab. Provides higher yields and lower harvest or production costs. Clusters of spring buds on tall, erect, blue-green plants.





Chicory - Witloof Bruxelles



Radicchio - Presto



Chicory - Catalogna



Hybrid Collards - Bulldog

## CHICORY

**CULTURE:** 1 pkt. of seed sows 30 ft/9 m of row at the rate of 2-3 per in/25 mm; oz./28 gr sows 250 ft/76 m; 2.5 lbs/kg per acre. Sow Witloof strain indoors in May; tops grow rapidly and resemble smooth dandelion leaves. Leaf stalks may be used for greens. The Witloof type may also be forced again during the winter at 50-60°F/10-16°C in a root cellar. After heads are harvested in the fall, dig up roots and trim to 8 or 9 in/20-23 cm. Transplant into bushels in moist sand. Best heads are 4-5 in/10-13 cm in height and weigh 2-3 oz/57-85 g.

**417A CICORIA CATALOGNA (Radichetta)** 65 days. Dark green leaves 12 in/30 cm long and 3 in/8 cm wide are deeply notched, with light green petioles. Both leaves and tender stalks are harvested in the spring. Pkt. (1,000 seeds) \$2.45; oz. \$8.50; 1/4 lb. \$19.75; 1/2 lb. \$33.65; lb. \$52.80.

**417B CICORIA SAN PASQUALE** 70 days. All Seasons wide, broader, more deeply cut, medium green, tender leaf. Pkt. (1,000 seeds) \$2.15; oz. \$3.25; 1/4 lb. \$5.60; 1/2 lb. \$9.55; lb. \$15.00.

**417 MAGDEBURGH (Cicoria Siciliana)** 100 days. Italian dandelion. Plants are 15 in/38 cm tall with medium green tender dandelion-like foliage. Excellent for Italian salads or leaves can be cooked like spinach. Roots are 14-16 in/36-41 cm long, tapered and white. Dried ground up roots can be used as a coffee substitute. Pkt. (1,000 seeds) \$2.45; 1/2 oz. \$6.45; oz. \$9.45; 1/4 lb. \$23.35; 1/2 lb. \$39.75; lb. \$62.40.

**416C WITLOOF BRUXELLES (French Endive)** 110 days. Root type. An excellent new strain from Fratelli, that may be used for commercial forcing or by small growers. Leaf stalks are very uniform, medium width, nicely shaped and excellent tasting. Pkt. (1,000 seeds) \$2.45; 1/2 oz. \$6.45; oz. \$8.70; 1/4 lb. \$21.55; 1/2 lb. \$36.70; lb. \$57.60.

## RADICCHIO

A beautiful red and white gourmet salad vegetable. Heads are soft ball to bowling ball size. Leaves are slightly bitter like endive, but sweeten slightly with cooler day temperatures. **CULTURE:** Seed is similar to lettuce and for best results, should always be direct seeded about the same time as fall lettuce (June 20th-July 5th). Never try to transplant this species, it is very unstable. Direct seedlings improve marketable yields 20% over transplants. **NOTE:** Only 60% will produce marketable or firm heads, about 15-20% will make loose heads, the rest just leaves. Space seed like lettuce. Harvest just before frost in mid Sept, 50,000 plants per acre. Approx. 250,000 - 300,000 seeds per lb/454 g.

**417G PRESTO** 75 days. An improved Chioggia type. Heads are quite large, averaging 8 in/10 cm across and weigh about 14 oz/400 gr. Dark red heads have white veins, flat/globe in shape and are tolerant to high summer heat and tip burn. Use for summer or fall harvests. Replaces Carmen. Pkt. (100 seeds) \$4.25; 1/4 oz \$45.20; oz \$121.75; 1/4 lb \$371.55; lb \$1312.20.

## CRESS & WATERCRESS

**CULTURE:** For Cress a pkt. sows about 10 ft/3 m of row. Sow at 6 seeds per in/25 mm from April 15 to August. For the smaller seeded watercress consult our packages for cultural information.

**78 FINE CURLED (Peppergrass)** 10 days. A splendid "green" to garnish sandwiches and salads. Pkt. (750 seeds) \$2.15; oz. \$4.45; 1/4 lb. \$8.65; lb. \$21.65; 25 lb. @ \$13.94 per lb.

**78M UPLAND (Cress)** 30 days. Biennial in zones 5 to 9. Use for fresh market, bedding plants, or home gardens. Dark green thick cut spicy leaf. Plants are slower to bolt than Fine Curled. Pkt. (750 seeds) \$2.70; oz. \$8.25; 1/4 lb. \$17.25; lb. \$43.10.

**78C WATERCRESS (Broad Leaf)** 50 days. A popular favorite for garnishing salads, watercress is mildly pungent. Home gardeners should have a very moist, shady spot for this species as it is usually propagated along river banks. Pkt. (150 seeds) \$2.45; 1/2 oz. \$8.65; oz. \$14.00; 1/4 lb. \$48.20; lb. \$170.05; 50 lb. @ \$139.14 per lb.



Corn Salad



Hybrid Collards - Top Bunch



Cress - Fine Curled

## COLLARDS

**CULTURE:** Sow 5 seeds per in/25 mm; .25 in/6 mm deep, June 1st. All maturity dates are based on direct seeding.

**NEW 78N TIGER** 69 days. F1 hybrid. An upright Georgia type plant habit with slightly savoyed, blue-green leaves and many of the same characteristics as Top Bunch. Tiger has a high ratio of blade to stalk, very fast regrowth after cutting and is very uniform. Excellent yield potential. Use primarily for fresh market, bunching or processing. Pkt. (100 seeds) \$3.75; 1/2 oz. \$18.90; oz. \$32.05; 1/4 lb. \$99.60; lb. \$280.40.

**78G TOP BUNCH** 70 days. F1 hybrid. Tall upright 18 in/46 cm plants grow very fast. Tolerant to early bolting. Wavy, blue-green, lightly savoyed leaves provide uniform second cutting. For fresh market or processing. Pkt. (100 seeds) \$3.75; 1/2 oz. \$17.85; oz. \$30.30; 1/4 lb. \$94.10; 1/2 lb. \$157.45; lb. \$264.85; 5 lbs. @ \$248.70 per lb; 10 lbs. @ \$234.20 per lb.

**NEW 78L BULLDOG** 71 days. F1 hybrid. An extra uniform top bunch type with a high yield potential and a high tolerance to bolting. Upright Georgia plant habit with some Vates similarities. Dark blue-green leaves are semi erect, broad and slightly savoyed. Plants have a rapid regrowth after cutting. Use for fresh market, bunching, machine harvesting, processing or for bedding plant sales. Pkt. (100 seeds) \$3.75; 1/2 oz. \$18.45; oz. \$31.25; 1/4 lb. \$97.00; lb. \$273.15.

**78E FLASH** 78 days. F1 hybrid. Hybrid smooth, flat, broad, deep green leaf early Vates type. Tall upright 18 in/46 cm plants are slow to bolt and very uniform in harvest. For fresh market or processing. Pkt. (100 seeds) \$3.75; 1/2 oz. \$17.65; oz. \$29.90; 1/4 lb. \$92.90; 1/2 lb. \$155.50; lb. \$261.55; 5 lbs. @ \$245.60 per lb; 10 lbs. @ \$231.25 per lb.

## OPEN POLLINATED COLLARD

**78A VATES** 80 days. Dark green long, wavy, wide tender leaves. O/P Pkt. (250 seeds) \$2.70; oz. \$7.80; 1/4 lb. \$13.70; lb. \$26.35; 5 lbs. @ \$21.55 per lb; 25 lbs. @ \$18.13 per lb.

## CORN SALAD (Mâche)

A miniature salad green popular with Europeans. Dark green leaves form a fancy rosette which is harvested young, without separating the leaves. Rosettes lose flavor if over mature, flavor is improved by frost. **CULTURE:** pkt. sows 20 ft/6 m; oz/28 g 50 ft/15 m. Sow large seed (10,000 per oz/28 g) in April, sow smaller seed (28,000 per oz/28 g) Sept/Oct. for Mar/Apr. harvest. Also grow in greenhouse flats, in cold frames throughout the winter. Minty flavor.

**78B CORN SALAD** 45 days. Standard large seeded strain for spring or fall crops. (10,000 seeds per oz/28 g).

**78F VERTE DE CAMBRAI** 45 days. Best medium to small seeded strain for fall crops or overwintering (28,000 seeds per oz/28 g). Prices of each of the above two: Pkt. \$2.45; oz. \$12.20; 1/4 lb. \$26.90; lb. \$81.50.





Gregorian



### Checking new varieties in Holland

## EARLY HYBRIDS

**61N GREGORIAN** 59 days. An extra uniform CMS hybrid (free of inbreds). Solid round heads average 7 in/18 cm - 3.5 lb/1.6 kg, with nice green wrapper leaves. No Yellows tolerance.

**NEW 68E FAST VANTAGE** 60 days. Great tasting, early variety in the Headstart class with improved uniformity in cool or high heat conditions. Medium green, high quality round heads average 2.5 lbs/1 kg and have no Yellowing tolerance. Use for fresh market or bedding plants.

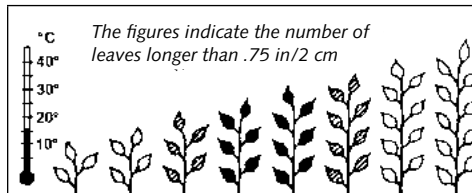
**64B BOURBON** 62 days. A CMS version of Balbro. 3 lb/1.3 kg dark green round heads with nice solid interiors. Tolerant to splitting under normal weather conditions. No Yellows tolerance.

**60D CHARMANT** 65 days. Darker green larger version of Princess and Stonehead. A more upright plant habit allows closer spacing and higher yields per acre. Dense heads form slowly for extended cutting periods of 16's and 12's. A high quality Yellows tolerant cabbage.

**60K HEADSTART** 65 days. Popular Asgrow late spring/early summer variety. Compact plants have nice cover, short stems. Heads are slightly flat/globe shaped, about 7 in/18 cm across and average 3.5 lbs/1.5 kg. No Yellowing tolerance.

**NEW** **61S EARLY THUNDER** 74 days. Excellent holding ability in the field, plants are blue/green in color, medium size, upright and slow bolting. Nice, round heads, mild texture and taste. Tolerant to Black Rot and Yellow. Use for Fresh Market and Kraut processing. **YR/BRR**

From our seed growers we are now demanding lab certificates, which report the status of each new seed lot on various seed borne diseases. The concentrated effort to supply clean seed to growers by all seedsmen now focuses the major cause for disease in the following areas. (a) contaminated seedling beds or top soils used in seedling flats, (b) the use of year old, unsterilized foam transplanting trays, (c) unsterilized and unfumigated greenhouses or tools, (d) neighboring disease carrier crops like rape or canola, perennial weeds, golden rod, wild turnip etc., (e) the failure to rotate crops, (f) overhead irrigation with diseased water, (g) improper control of carrier insects from diseased neighboring fields, (i) failure to clean cultivating equipment between crops.



A close-up photograph of a green cabbage head, showing its tightly packed, rounded leaves and prominent white veins. The cabbage is the central focus, surrounded by larger, more spread-out leaves that also show the same vein pattern. The lighting is bright, highlighting the texture of the leaves.

### Fast Vantage

**56A GOLDEN ACRE** 65 days. Standard strain for bedding plant sales. Plants have a fair wrapper leaf, heads are round and average 2.75-4 lbs/2 kg, and 5.5-6 in/15 cm in diameter. No Yellows tolerance. For untreated seed, order **UT56A**.

NEW	OPEN POLLINATED CABBAGE		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb @ per lb.		
	56A	Golden Acre	200	2.40	3.05	5.40	9.20	14.40	12.00		
	EARLY HYBRID CABBAGE		# seeds per pkt	Pkt	1,000 seeds	5M per M	10M per M	50M per M	100M per M	500M per M	1,000M per M
	60D	Charmant YR/BRR	100	2.65	7.12	6.37	6.15	4.48	4.37	4.00	3.95
	60K	Headstart	100	2.65	7.45	6.67	6.44	4.69	4.57	4.19	4.14
	61N	Gregorian	100	2.65	7.93	7.09	6.84	4.99	4.86	4.46	4.40
✓	61S	Early Thunder YR/BRR	100	2.65	7.38	6.60	6.37	4.64	4.53	4.15	4.10
	64B	Bourbon	100	4.10	20.17	18.05	17.41	12.69	11.82	11.35	11.19
✓	68E	Fast Vantage	100	2.65	7.28	6.51	6.28	4.58	4.46	4.09	4.04



Adaptor YR



Grand Vantage YR



Quisor YR



Thunderhead YR/BRR

## STOKES MAIN SEASON CABBAGES

**CULTURE:** Most of the larger growers in NY state, Ont. and Que. have abandoned direct seeding in favor of transplants - due to soil crusting, caused by wet weather during late spring (May 15th - June 5th). Uneven soil emergence will cause a wide variation of head sizes at different maturities and loose centers at harvest. Small multiple heads (3 or 4 per stem) are a sign of weather stress - not poor seed stock.

### MID SEASON VARIETIES

**61A STONEHEAD** 67 days. Heads are round, very solid - average 4 lbs/2 kg and about 6 in/15 cm in diameter. High quality shipper. Matures before Market Topper. Good tolerance to bursting and Yellows.

**61E BLUE DYNASTY** 75 days. Excellent green fresh market or shipper cabbage, very uniform blue/green round head - holds well in the field. Average weight 3-4 lbs/1.8 kg. Tolerant to Black Rot and Yellows.

**61M BLUE VANTAGE** 76 days. Medium frame, blue-green 6.5 in/16 cm round head for fresh market or shipping. Heads have good wrappers, average 3-4 lbs/1.8 kg, 14-20 count. Tolerant to Black Rot, Black Speck, Tip Burn, and Yellows.

**68R GRAND VANTAGE** 82 days. Very round, blue-green 7 x 7 in/17 x 17 cm head averages 5-6 lbs/2.2-2.7 kg. Has dense solid interiors, short cores and tight wrapper leaves. Holds well in the field. Yellows Tolerant.

**61U THUNDERHEAD** 82 days. Uniform, blue green, round 3-5 lb/1.8-2.2 kg head has a compact plant with Fusarium tolerance plus an high tolerance to Black Rot.

### MAIN SEASON VARIETIES

**68T TEKILA** 90 days. A Quisor CMS type with additional clubroot tolerance. Very uniform blue green, round, larger 9.8 in/24 cm head has some storage possibilities and Fusarium Tolerance. YR fresh market type. The first Clubroot tolerant variety.

**68G QUISOR** 90 days. CMS version of Quisto. Excellent blue green color, superb uniformity, nice round head shape. Fresh market size 3-5 lb/1.4-2.2 kg heads. Good Yellows tolerance. Some tolerance to Tip Burn and splitting. Also used as a short term storage type.

**61Z ADAPTOR** 95 days. Our best late season, fresh market, blue green, high yielding cabbage. Can also be used for short term storage. Round 6-8 in/15-20 cm heads result in great looking pack appearance. Interiors are VERY solid with short cores and can be used for high quality smooth cabbage roll leaves or coleslaw (cut heads horizontally).

### PROCESSOR TYPE

**68J ENCORE** 100 days. Dual purpose - Processor/Storage type. Extra large mature head can average 7-8 lbs/3-3.5 kg with good field holding ability. Heads are slightly flat/round shaped, medium green in color with dense, smooth, pure white interiors. Fusarium tolerant with some tolerance to Tip Burn.

### SPECIAL TYPES FOR CABBAGE ROLLS

**NOTE:** High quality interior cabbage roll material may also be harvested by cutting some main season heads horizontally above the core (like Adaptor) and using the bottom half - with core, for coleslaw.

**68S HERCULES** 75 days. Extra large plants provide heavy yields. Jumbo flat heads are very firm with excellent flavor. Plants thrive under cold wet fall conditions and are tolerant to cracking and are blue-green in color. Heads average 10 in/25 cm in diameter and 5 lbs/2kg in weight. For Cabbage Roll production. Harvest in late Sept. or early Oct.

**71Z O-S CROSS** 80 days. Unique flat or drum head type without large central leaf veins. Large thin veined leaves are easily rolled for Cabbage Roll production. Plants are heat tolerant. Flat, medium green heads average 5 lbs/2 kg or larger. Tolerant to premature bursting in the fall. Harvest in late Sept.

### HYBRID RED CABBAGE

**NOTE:** Some red cabbage are very susceptible to secondary or field infections of Black Rot. Rotate crops and keep sprayed until Sept. Do not crowd red varieties - or you will cause football shaped heads. (suggest 14m-15m/acre). During late summer and early fall heavy morning dews - stay out of field until the plants are dry - to control disease spread.

**77J RED JEWEL** 75 days. High yielding deep red medium-large heads have short cores. Ideal for both fresh market, shredder and processing markets. No tolerance to Fusarium, some Tip Burn tolerance.

**77Q RONDALE** 75 days. A CMS version of Royale, which it replaces. Oval, rounded dark red heads average 4lb/1.8 kg. Ideal for fresh market or processing. Uniform plants have good wrapper leaves and are Tipburn and Yellows tolerant. Dense heads have short cores. Easy to harvest, producing good tonnage.

**77B RED DYNASTY** 76 days. An excellent oval/round, fresh market red with additional tolerances to Black Rot, Yellows and Tip Burn. Medium sized 3.25-5lbs/1.5-2kg heads have very uniform plants.

NEW	HYBRID CABBAGE (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5M per M	10M per M	50M per M	100M per M	500M per M	1,000 M per M
	61A Stonehead YR	100	2.45	8.55	7.36	7.10	5.17	4.82	4.50	4.40
	61E Blue Dynasty YR/BRR	100	2.45	6.36	5.69	5.49	4.00	3.73	3.48	3.40
	61M Blue Vantage YR/BRR	100	2.45	5.56	4.97	4.80	3.49	3.26	3.04	2.97
✓	61U Thunderhead YR/BRR	100	3.75	8.12	7.26	7.01	5.11	4.76	4.57	4.50
	61Z Adaptor YR	100	3.75	11.97	10.71	10.33	7.53	7.34	6.73	6.64
	68G Quisor YR	100	2.45	7.70	6.89	6.65	4.84	4.51	4.21	4.12
✓	68J Encore YR	100	5.10	15.72	14.06	13.57	9.88	9.64	8.84	8.72
	68R Grand Vantage YR	100	2.45	8.91	7.97	7.69	5.60	5.47	5.01	4.87
✓	68T Tekila YR	100	5.50	49.84	44.58	43.02	31.34	30.56	28.03	27.64
	68S Hercules	100	2.45	5.57	4.98	4.81	3.50	3.41	3.13	3.09
	71Z O-S Cross	100	2.45	8.32	6.24	5.20	3.75	3.43	3.33	3.33
	77B Red Dynasty YR/BRR	100	3.75	12.71	11.37	10.97	7.99	7.45	6.95	6.80
✓	77J Red Jewel	100	3.75	9.70	8.68	8.38	6.10	5.69	5.31	5.23
	77Q Rondale YR	100	3.75	13.66	12.22	11.79	8.59	8.38	7.68	7.58



Stokes Extensive Cabbage Trials



Processing Type - Encore YR



Red Dynasty YR/BRR





Loughton YR



Multikeeper YR/BRR/TBT



Novator YR/TBT



Bloktror YR

## LATE HYBRID STORAGE CABBAGE

**CULTURE:** For proper head maturity sow red types in the greenhouse or cold frames in late April and transplant in June. Green long storage types should be sown in seed beds outdoors May 20th - June 1st and transplanted 5 or 6 weeks later. Short term green storage types should be sown 1 week later, June 10th and transplanted in early July for late Sept/Oct. harvests. The long storage types are slow growers but triple their size in the fall. All seed is screened for Black Rot and Black Leg by our suppliers. **PLANT POPULATION:** Most Canadian growers transplant 16-18,000 plants per acre, for a smaller head. U.S.A. growers prefer about 12,500 plants per acre for more tonnage.

**TIMING:** This is a critical grower responsibility which can ruin a crop of the best hybrid storage cabbage. If you sow a 95 day and a 110 day cabbage the same day early in May it could force the 95 day variety to mature 45 days too early from transplants or two months too early from direct field seeding. The 110 day type would be alright from field seeding but may be too early to store from transplants. For each day that you shift your sowing date in the spring - it will cause a 3 day change in fall harvest.

**DIRECT SEEDING:** Although some growers still attempt to direct seed a small percentage of storage cabbage, it is quite risky due to soil compaction or "crusting", depending on soil type and heavy rains after seeding. If crusting occurs it will delay or cause irregular seedling emergence, which in turn causes a wide variation in harvest dates in the fall. **Use transplants for storage types.**

**STRESS/BOLTING TO SEED:** Even though storage cabbage is classed as a biennial and is slower growing than other cabbage - it WILL show premature stages of bolting if plants are severely stressed by extreme drought, sudden release of nitrogen or weed controls, or heavy July/August rains and flooding, just as the plants begin to head. This will cause wide variation in head shapes and sizes, loose interiors, larger cores, and red tinged leaves (which is a sign of stress) and multiple tiny heads at the base of the head. **FREEZING:** If heads are severely frozen in the field before harvest in late Oct. - they will bruise easily and WILL rot quickly in storage. NEVER harvest and store frozen cabbage. Let plants thaw before cutting. **SIZED SEED:** All of our seed is precision graded by seed count by our suppliers.

## SHORT TERM STORAGE HYBRID

**55A MULTIKEEPER (Yellows/Black Rot/Black Speck Tolerant)** 86 days. Compares with Survivor as a multi disease tolerant short term storage type that can also be cut earlier for early Sept. fresh market 16's or Oct. kraut or storage purposes. Better tolerance to tip burn and splitting than Jadekeeper. For larger heads adjust spacing. Sow at the same time as Survivor. Tolerant to Thrips. Exclusive.

**68G QUISOR (Yellows Tolerant)** 90 days. CMS version of Quisto. Excellent blue green color, superb uniformity, nice round head shape. Fresh market size 3-5 lb/1.4-2.2 kg heads. Good Yellows tolerance. Some tolerance to Tip Burn and Splitting. Also used as a short term storage type.

**61Z ADAPTOR (Yellows Tolerant)** 95 days. Can be used for short term storage. Round 6-8 in/15-20 cm heads result in great looking pack appearance. Interiors are very solid with short cores and can be used for high quality smooth cabbage roll leaves.

NEW	HYBRID STORAGE CABBAGE (90 M -100 M=approx. 1 lb/454 g) (M = 1,000 seeds)	#seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	55A Multikeeper YR/BRR/TBT	100	2.45	5.56	4.97	4.80	3.49	3.41	3.12	3.08
	61Z Adaptor YR	100	3.75	11.97	10.71	10.33	7.53	7.34	6.73	6.64
	68G Quisor YR	100	2.45	7.70	6.89	6.65	4.84	4.51	4.21	4.12
	68Q Mucsuma YR	100	2.45	18.54	16.58	16.00	11.66	11.37	10.64	10.50
	70A Constellation YR	100	5.10	17.97	16.07	15.51	11.30	10.53	10.11	9.97
	71U Princeton YR	100	5.10	18.98	16.98	16.39	11.94	11.64	10.68	10.53
	71X Loughton YR	100	5.10	18.98	16.98	16.39	11.94	11.12	10.38	10.31
	72A Novator YR/TBT	N/A	N/A	17.29	15.47	14.93	10.87	10.13	9.73	9.59
	72C Bloktror YR	N/A	N/A	17.29	15.47	14.93	10.87	10.13	9.73	9.59
✓	77T Super Red 115	100	3.75	17.14	15.33	14.80	10.78	10.51	9.64	9.51

## LONG TERM STORAGE HYBRIDS

**71U PRINCETON (Yellows Tolerant)** 110 days. Very well adapted as a long storage type for chain store boxes or medium sized shipping bags. Heads average 5-8 lbs/2.3-3.6 kgs, are round in shape, well protected, peel easily and hold their color well in storage. Should mature slightly larger and earlier than Loughton. Transplant at about 11-14,000 plants per acre.

**72A NOVATOR (Yellows Tolerant)** 110 days. One of Syngenta's most popular long storage European varieties. Heads average 9 lbs/4 kgs and are tolerant to Internal Blackening, Tip Burn and Fusarium Yellows. Nice blue-green round heads at harvest.

**72C BLOKTOR (Yellows Tolerant)** 112 days. Compare to Amtrak. Large, very solid 8 lb/3.6 kg, round heads are well protected by grey/green wrapper leaves. Nice fresh green color holds well in storage. Dense interiors. Strong thrips tolerance. SG3271

**71X LOUGHTON (Yellows Tolerant)** 115 days. Widely adapted for use by most storage cabbage growers for late main season, long term storage. Attractive blue-green color, round heads, large frame, nice wrappers.

**70A CONSTELLATION (Yellows Tolerant)** 120 days. High yielding, large 6-10 lb/2.5-4.5 kg green/grey, round, very dense heads with good wrapper leaves. Use for processing or fresh green cabbage - after long term storage. Thrips tolerant.

**68Q MUCSUMA (Yellows Tolerant)** 125 days. High yield potential. The extra large green heads average between 6-11 lbs/2-5 kg. Large frame plants are upright, heads are very dense with long term storage and great holding capability.

## HYBRID RED STORAGE CABBAGE

**NEW 77T SUPER RED 115** 115 days. F1 hybrid. The first true storage red with a strong tolerance to Fusarium yellows and thrips. Nice round medium sized heads have an attractive dark red color along with fancy wrapper leaves. Plants are very upright and sturdy with very good yields and storage potential. Replaces Rona Red.



Princeton YR



Mucsuma YR



Adaptor YR



Super Red 115 YR





Savoy Blue



Jazz



Miletta

## HYBRID SAVOY CABBAGE

Savoy types mature much later than ball head cabbages. This usually means that Savoy types are hit with early frosts and cold fall weather, making the leaves very sweet. Savoy types do not give off that heavy "cabbage aroma" when cooked.

**CULTURE:** Transplants are usually preferred to direct seeding. We can supply Seed Borne (0/30 M) Black Rot disease certificates on all our hybrid Savoy types at \$5.00 each. Savoy types are VERY susceptible to secondary infections of Black Rot. NEVER plant wet transplants! Stay out of wet fields!

**66H SAVOY ACE IMPROVED** 75 days. Darker deep green color than the original, holds better in the field and is tolerant to cold. Nice globe shape for early fall harvests. No Yellows tolerance. **Supply Limited.**

**61R SAVOY BLUE** 80 days. Dark blue/green 3-6 lb/2 kg main season large savoy with good holding ability in the field. Heads are heavily savoyed, round/flat in shape with a refined interior and a short core. No Yellows tolerance.

**65D TALER** 85 days. Heavily savoyed medium dark blue-green, round type like Primavoy and Wiroso, but earlier. For storage or fresh market, some frost tolerance. No Yellows tolerance.

**65Q MILETTA** 88 days. An excellent, very dark, blue-green main season savoy. Leaves are heavily savoyed on uniform round heads averaging 3.5 lbs/1.6 kg. Holds well without splitting after maturity. No Yellows tolerance. Tip Burn tolerance. Exclusive.

**65C PRIMAVOY** 98 days. Matures with Wiroso but is a darker blue green color and may be stored like it. Medium sized, 3.5 lbs/1.8 kg heads are well savoyed. No Yellows tolerance.



Savoy Ace Improved

Quality Seed Since 1881

## CHINESE CABBAGE

**CULTURE:** oz/28 g 3,000 plants; 2 lbs/1 kg per acre (direct seeded). Late August sowings will produce "greens" until freezing weather arrives. Hybrid varieties will store almost as long as regular cabbage. Michihli types are used for short term storage only.

Chinese Cabbage has increased in popularity drastically in the last few years, due to its use in salad bars and the influx of new North American citizens of Asian descent. As a fresh vegetable, both forms of Chinese Cabbage are sweeter tasting than white or savoy cabbage. Napa or Wong Bok types are barrel shaped and are usually stored (2 months) in a horizontal position to prevent crushing the crowns. Michihli types - tall cylindrical varieties, usually have better Black Speck tolerance than Napas and they are slower bolting during weather stress. They are used fresh and never stored for long periods.

Chinese Cabbage grows much faster than North American types and are especially sensitive to bolting if the transplants are too old (7-8 weeks). Growers should consider direct seeding or using younger transplants (5-6 weeks old). Both types prefer a neutral pH of 7.0 and clay loam soils with good fertility and better water holding properties. Maturing crops prefer cool harvest periods and will bolt to seed in excessive hot weather and the long daylengths of mid summer.

**ORGANIC GROWERS:** Chinese cabbage is so susceptible to problems with Black Rot or Black Leg that it is not worth the legal risk of offering untreated seed.

### HYBRID NAPA TYPES

**76J BLUES** 57 days. F1 hybrid. Heads average 10 in/25 cm are barrel-shaped and average 3.5-4.5 lbs/1.8-2 kg. Tolerant to Virus, DM, White Spot, Alternaria Leaf Spot and Bacterial Soft Rot. Use for spring or fall harvests.

**76N CHINA GOLD** 65 days. Excellent external dark green compact frame, barrel shape, golden/white internal color, with good weight. Tolerant to tipburn and some races of Club Root. Slow bolting.

**76K JAZZ** 65 days F1 hybrid. Plants are very slow bolting, which helps to hold plants well in the field during early summer heat. Leaves are very tender and of excellent quality, with an improved yellow internal color. Well folded heads average 6 lbs/2.7 kg and can be stored for about 2 months after harvest, at proper storage temperatures. Tolerant to Virus, Bacterial Soft Rot, Alternaria Leaf Spot, Club Root. Slow bolting.

**76M YUKI** 70 days. F1 hybrid. Medium sized slow bolting Napa for Fall production. Well folded, darker bright green, barrel shaped heads have prominent white ribs. Tolerant to Pepper Spot and Club Root.

### HYBRID MICHIHILI TYPE

**76L GREENWICH** 69 days. F1 hybrid. Dark green medium size, tall cylindrical Michihli type is a slower bolting plant with a stronger tolerance to tip burn than other varieties.



Yuki



Tenderheart

### MINI HYBRID NAPA

**76T TENDERHEART** 50 days. F1 hybrid. An early maturing, slow bolting baby or miniature Napa type. Makes a great single meal Chinese cabbage. Plant is medium green in color and provides a nice compact head that averages 2 lbs/908 g. Plants are slow bolting and have tolerances to Downy Mildew and TMV.



**Order Now!**  
4 Easy Ways To Order  
Please see page 1 for details.

NEW	HYBRID SAVOY CABBAGE (M = 1,000 seeds)	# seeds Per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	61R Savoy Blue	100	4.15	14.00	12.52	12.09	8.81	8.59	7.88
	65C Primavoy	100	4.15	14.85	13.28	12.82	9.34	9.10	8.35
	65D Taler	100	4.15	11.84	10.59	10.22	7.45	7.26	6.66
	65Q Miletta	N/A	N/A	12.05	10.78	10.40	7.58	7.06	6.78
	66H Savoy Ace Imp.	100	2.95	9.18	8.21	7.92	5.77	5.63	5.16
	HYBRID CHINESE CABBAGE (M = 1,000 seeds)	# seeds Per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	76J Blues	100	2.15	2.98	2.67	2.57	1.87	1.75	1.63
	76K Jazz	100	2.15	2.93	2.62	2.53	1.84	1.79	1.65
	76L Greenwich	100	2.15	3.72	3.33	3.21	2.34	2.28	2.09
	76M Yuki	100	2.15	5.14	4.60	4.44	3.23	3.15	2.89
	76N China Gold	100	2.15	5.14	4.60	4.44	3.23	3.15	2.89
	76T Tenderheart	100	2.15	3.69	3.30	3.19	2.32	2.16	2.08



PRINTABLE ORDER FORM



Foo Gwa Long Green

Mitsuba

Joi Choi

Eggplant - Shoya Long

Mei Qing Choi

Perilla Red

Tah Tsai

Tsoi-Sim

Komatsuna

Mizuna Early

## ORIENTAL VEGETABLES

**422 HO LAN DOW (Snow Peas)** A special smaller podded, bush strain developed for row crop cultivation - needs no staking. The snow pea is an edible podded pea which should be eaten raw in salads as Dow Miu (snow pea shoots) or stir fry with barbecue pork, onion, or crab meat. Sow in March or August - harvest in May or October. For untreated seed, order **UT422**.

**422C GUY LON (Kailaan)** Sometimes called Chinese kale, this is grown during cooler weather. It has sturdy green stems, large flat leaves and loose buds that do not form a head. Tender stems, leaves and buds are chopped in chunks and mixed with peppers, Bok Choi and Pe Tsai. Sow in spring or fall.

**422X TAH TSAI (Non heading Chinese Cabbage)** This new strain has good heat and cold tolerance. Spoon shaped, glossy, waxy green leaves have prominent white support petioles - like an endive or escarole. Rich in vitamins, used in soup, or fried and boiled meat dishes. Sow and harvest at the same time as endive.

**411 MUSTARD GIANT RED** 45 days. Large, tender Miike Purple/Red Japanese mustard leaves are thick, savory type and pungent with white mid-rib. Leaves turn purple at low temps and plants are tolerant to cool fall weather. Sow early spring or late summer.

**422N TSOI-SIM** 40 days. Chinese green. Harvest young stalks with a few flower buds like Italian rapine or rappa. Sow in early summer. Use in soups or for stir-fry, salads, etc. Excellent flavor, very tender. Similar in culture and use as Hon Tsai Tai.

**422S MEI QING CHOI** 45 days. F1 Hybrid. Green stemmed spoon shaped Shanghai Pak Choi that has a good tolerance to bolting. Better tasting than white types. Upright compact plants can be spaced 5 in/13 cm apart.

**422F FENG QING CHOI** 45 days. F1 Hybrid. Very slow to bolt - excellent heat tolerance. Thick, tender, delicious green petioles

**422T JOI CHOI** 45 days. F1 Hybrid. Hybrid version of Lei Choi. Fine, spoon shaped stalks, ivory white stems, dark green leaves. Some cold tolerance.

**423D TOY CHOY** 30 days. Mini baby choi. Unique tiny 5 in/12.5 cm erect plants with white petioles and dark green leaves. Performs well in dense plantings and heat. Tender leaves, excellent flavor.

**423F BONSAI** 45 days. Compact Shanghai or Southern China Pak Choi with moderate tolerance to bolting. Performs well under high density plantings. Also use as a 35-37 day baby pak choi.

**422H CEE GWA (Chinese Okra Smooth)** Can be eaten in the young stage at 6 in/15 cm long, or left to overmature as a 20 in/50 cm fruit. When dried, light porous pulp is used as a dish cloth or sponge. Cut young fruit into small pieces and stir-fry with chicken, bamboo shoots or cashews. Sow indoors March 15th, transplant outdoors June 5th, harvest young, around August 1st.

**422Y CEE GWA (Chinese Okra Ridged)** Best tasting, no peeling necessary, use young. 6 in/15 cm or longer. Soak seeds for 24 hours before sowing indoors Mar. 15th. Immature flesh is very tender and sweet.

**422M FOO GWA (Medium Spindle Bitter Melon)** Very popular in China and Taiwan. Fruit are shaped like cucumbers and average 6-8 in/15-20 cm long. Light greenish/white skin is smooth and ridged, flesh is very bitter. Cantonese use for stuffed pork dishes.

**422R FOO GWA (Long Green Bitter Melon)** Extra long slim fruit average 8-12 in/20-31 cm in length with darker green, smooth ridged skin and thick white flesh. Popular in Taiwan, harvest young.

**150T SHOYA LONG (Eggplant)** 60 days. Extra long 10-15 in/25-35 cm purplish-black fruit with a purple calyx. High percentage of first grade, very fine quality fruit. Vigorous, upright plants produce a large quantity of fruit.

**411C KOMATSUNA** 35 days. All season Japanese Green. Easy to grow. Mild, tender greens for salads, stir-fry. Uniform upright plants with slender, tasty, cylindrical green stems and dark green, round leaves.

**411A MITSUBA (Japanese parsley)** 50 days. A perennial plant with tender leaf green stems - 3 plain parsley leaves per stem. Young leaves have an aromatic flavor used in seasoning fish soups, sukiyaki, etc. Sow in spring or fall - grow as an annual. Harvest 6 in/15 cm tall.

**422Q MIZUNA EARLY** 40 days. Japanese green with broad, serrated leaves and white ribs. Vigorous plant with good cold tolerance. Light green leaves are very juicy, tender and have a nice flavor. Use for Mesclun salad mixes, stir-fry, pickling.

**422P PERILLA RED** A popular Japanese herb. Young stems and leaves can be used for aroma, flavoring Mesclun salad mixes, cooking and pickling. Dark red leaves are serrated. Mature plants are 2.5 ft/76 cm tall. Likes full sun - a nice container plant for the patio.

### ADDITIONAL ORIENTAL VEGETABLES

Soy Beans.....	Page 5
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Honeydew Melon.....	Page 36
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Oriental Radish.....	Page 45
Squash - Kabocha Types.....	Page 50



Ho Lan Dow

Guy Lon



Cee Gwa Ridged

Toy Choy

AM	ORIENTAL VEGETABLES	# seeds per pkt	Pkt	½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb per lb	25 lb @ per lb
411	Mustard Giant Red	100	2.45		5.00	14.10		40.65	37.45	
411A	Mitsuba	100	2.70	5.90	8.70	24.45		70.50	64.95	
411C	Komatsuna	100	2.45		5.30	14.95		43.15	39.75	
422	Ho Lan Dow		N/A		2.15		3.45	5.40	3.60	2.42
422C	Guy Lon	100	2.45	13.30	21.15	68.30		180.25		
422H	Cee Gwa (Smooth)	100	5.10	9.95	15.80	51.10		134.80		
422M	Foo Gwa (Hong Kong)	10	3.50	11.15	17.70	57.20		150.85	146.80	
422N	Tsoi-Sim	100	2.70		5.95	16.75		48.25	44.50	
422P	Perilla Red	50	3.75	7.65	11.30	31.80		91.65	84.45	
422Q	Mizuna Early	100	2.45		3.65	9.75		28.10	25.90	
422R	Foo Gwa (Taiwan)	10	3.75	7.00	11.10	35.85		94.55	92.00	
422X	Tah Tsai	100	2.45		6.35	15.65		38.15	36.20	
422Y	Cee Gwa (Ridged)	100	5.10	10.40	16.50	53.35		140.80	137.05	
150T	Shoya Long	50	3.95	44.60	75.90	220.85				
	HYBRID PAK CHOI (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M	
422F	Feng Qing Choi	100	2.45	4.54	4.06	3.92	2.57	2.50	2.30	
422S	Mei Qing Choi	100	2.45	4.60	4.12	3.97	2.60	2.54	2.33	
422T	Joi Choi	100	2.45	4.60	4.12	3.97	2.60	2.54	2.33	
423D	Toy Choy	100	2.45	3.20	2.86	2.76	1.81	1.76	1.62	
423F	Bonsai	100	2.45	3.29	2.94	2.84	1.86	1.81	1.66	





Celery - Utah 52-70 R Improved



Celeriac - Giant Prague



Harvesting Envy as an "Early Jumbo"

## CELERY

**GERMINATION:** Requires 10-20 days at 65°F/18°C. Seed should be covered and kept moist. If soil dries out, it will delay germination. **CULTURE:** an acre requires 20-30,000 plants. **EARLY CROPS:** Sow in greenhouse about Feb.15th-Mar.1st, 1/16 in/2 mm depth. Keep night greenhouse temperatures above 55°F/13°C to discourage seeders. Germination is improved by alternating temperatures. Transplant 3 in/8 cm seedlings into the field in rows 30-36 in/76-91 cm apart. Celery may be direct seeded at the rate of .25 lb/113 g per acre. Keep well watered, spray with a good fungicide once a week. **SMALL GROWERS:** Celery seed should be started in Jiffy Mix about Feb. 25th or 10-12 weeks before transplanting into the field. Sow pellets, cover lightly, and germinate at 70°F/21°C for 14-21 days. Do not transplant outside before June 1st due to the danger of bolting caused from cold nights. Celery is a heavy feeder and drinker. Fertilize every 2-3 weeks, keeping well watered. Later crops may be sown outdoors or in flats by mid April. Seed requires 3 weeks to germinate. **PELLETS:** Only high germ. 88-90% seed is used. **MATURITY DATES:** Are from transplants to harvest.

### EARLY OPEN POLLINATED VARIETIES

**99D UTAH 52-70 R IMPROVED** 98 days. Pybas Strain. Dark green plants are very uniform with tall petioles. Provides excellent yields, is tolerant to both bolting and Fusarium Yellows. Used by bedding plant growers and smaller growers. Available in raw seed only.

**P103A FLORIDA 683** 100 days. Higher rib count than 52-70, better heart formation. Bushy, medium green. Pelleted seed.

**P99G SABROSO** 100 days. Yellows Tolerant. Specially suited for the processing industry. Sabroso has long thick, straight petioles with medium smoothness. Plants require very little suckering or pruning and have a high tolerance to Fusarium. Thick heavy plants provide excellent weight and yield. Use for fresh market or processing. Pelleted seed.

**P99H COMMAND** 100 days. Yellows tolerant. A tall fresh market celery with dark green foliage and reduced suckering. Bunches are compact and blocky with good petiole length. Good tolerance to bolting and Fusarium Yellows. **pvp** Pelleted seed.

## CELERIAC

Roots are eaten after they reach 2 in/5 cm or more in diameter. They require no blanching and have a nut like flavor. Easily stored. Approx. 1,000 seeds per pkt. 50,000 seeds per oz/28 g. Maturity from transplants. **CULTURE:** Similar to celery.

**94A GIANT PRAGUE** 110 days. An elite European strain. Generally known as turnip rooted celery. The root or knob is the edible part.

## PELLETED CARROT SEED

Stanhay round pellets. Size 13/64 is standard. Seeding rate will vary depending on the carrot type. Smaller orders are packaged in 10M or 100M packages. Larger orders are packaged in 500M pails (size 13/64). Note: For vacuum seeders use OnX® coated seed.

### MINIMUM ORDER 10,000 PELLETS PER VARIETY



Carrot - Sugarsnax 54



Carrot - Cellobunch

NEW	CARROT PELLETS		10 M	50 M	100 M	1,000 M	5,000 M	
	Min. order 10,000 (M=1,000 pellets)		per M	per M	per M	per M	per M	
	P79D Boloro		1.83	1.73	1.30	0.78	0.72	
	P80H Dominion		2.13	2.03	1.51	0.96	0.80	
	P81A Apache		1.91	1.81	1.36	0.87	0.73	
	P81K Enterprise		2.00	1.90	1.42	0.91	0.76	
	P86B Achieve		2.17	2.07	1.54	0.97	0.81	
	P89H Maverick		2.01	1.91	1.43	0.91	0.76	
	P89J Sugarsnax 54		1.86	1.76	1.32	0.85	0.72	
	P90A Cellobunch		2.00	1.90	1.42	0.91	0.76	
	P90D Magnum		2.02	1.92	1.43	0.92	0.77	
	P90G Envy		2.24	2.14	1.59	1.00	0.83	
	P90H Vitana		2.01	1.91	1.43	0.91	0.77	
	P90K CR2289		2.27	2.17	1.61	1.01	0.84	
✓	P90R Romance		2.35	2.25	1.67	0.97	0.88	
✓	P91H Goldfinger		2.16	2.06	1.53	0.90	0.82	
	P91R Rebel		2.10	2.00	1.49	0.95	0.80	
	P91T Trooper		2.10	2.00	1.49	0.95	0.80	
	<b>CELERY PELLETS</b>	<b># pellets per pkt</b>	<b>Pkt</b>	<b>1000 pellets</b>	<b>10 M per M</b>	<b>50 M per M</b>	<b>100 M per M</b>	<b>1,000 M per M</b>
	(M=1,000 pellets)							
	P99G Sabroso YR			N/A	4.06	2.68	2.29	1.87
	P99H Command YR			N/A	5.05	3.34	2.85	2.33
	P103A Florida 683	50	3.20	5.12	1.74	1.15	0.98	0.80
	<b>CELERY - Raw Seed</b>	<b># of seeds per pkt</b>	<b>Pkt</b>	<b>1000 seeds</b>	<b>10 M per M</b>	<b>50 M per M</b>	<b>100 M per M</b>	<b>1,000 M per M</b>
	(M = 1,000 seeds)							
	99D Utah 52-70 R Imp	100	3.20	6.39	2.17	1.44	1.23	1.00
	<b>CELERIAC</b>	<b># seeds per pkt</b>	<b>Pkt</b>	<b>1/2 oz 14 g</b>	<b>oz 28 g</b>	<b>1/2 lb 113 g</b>	<b>1 lb 227 g</b>	<b>lb 454 g</b>
	94A Giant Prague	1,000	2.15	3.00	4.20	12.20	20.05	31.10

**MINIMUM ORDER**  
We cannot supply small orders for pellets. Please keep your orders to multiples of 10,000 pellets per variety.





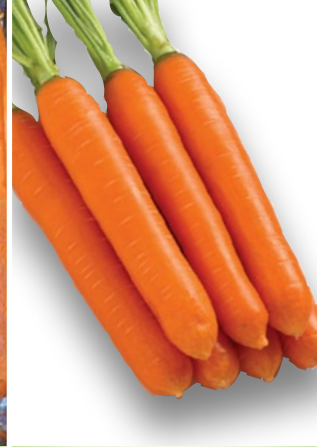
Coreless Amsterdam



Touchon Deluxe



Goldfinger



Romance



Vitana

## CARROTS

**CULTURE:** 1 pkt. will sow about 30 ft/9 m of row; oz/28 gr 250-300 ft/84 m; 1-2 lbs/1 kg per acre for Chantenay or Danvers types. Broadcast seed thinly in a band 2 in/5 cm wide and space the seeds about 1/8 in/3.1 mm apart in all directions (3-4 seeds per in/25 mm). Seed should be sown .25 to .5 in/6-13 mm deep and covered with fine, light soil. Do not allow ground to crust, by sowing too soon after a rain or setting the weight of the packing wheel on your seeder, too heavy. Crusted soils cause irregular germination which will cause wide variations in the maturity and length of the roots at harvest time. Never allow fields to become flooded, when the young seedling is at the 5th-8th leaf stage, or it will cause short stubby roots. Forked roots are a sign of severe stress (lack of moisture). Make several sowings 7 days apart, to avoid weather stress problems on your entire crop. Keep heavy tractor wheels away from the rows, to prevent misshapened roots. **SEEDING RATE:** The most important thing a grower does is to calculate the number of live seeds per ft. or sq. meter - depending on variety, soil type and seed germination. If the weather is normal - seeding rate controls the shape and overall quality of the root. On muck, regular types are sown at 18-36 seeds per ft/30 cm, processors at 18-20 live seeds per ft/30 cm on muck, less on sandy soil. **SEED COUNT:** We try to inventory seed counts of 225M- 275M/per lb on fresh market or processing varieties and 350M-400M on baby carrots. **COLOR** is influenced by soil temperature over 68°F/20°C and drainage. Never use nitrogen to improve color.

### HYBRID BABY CARROT

**NOTE:** Variable Size : Baby carrots will lose at least 60% of their uniformity and become oversized quickly under stress. Too much rain, hot days and nights and drought will all cause length and root distortion. Make several sowings.

**CULTURE:** Sow at the rate of 10 lbs/4.5 kg per acre, in four or five row mini beds, 8 in/20 cm between rows. For best results mini carrots should be grown in shallow, sandy top soil, which has been well rototilled (8 in/20 cm) pH of 6.0 to 7.0 is ideal. Small growers should broadcast or spread the seed in wide 2 in/5 cm bands, spacing seeds 1/16 in/ 2 mm apart. An oz/28 gr sows approx. 60 ft/18 m of bed, pkt. sows 5 ft/1.5 m of row. Approx. 1,200 seeds per sq. m. **TRIPLE SIZED SEED** - Graded by length, width, gravity. **SEED COUNT:** Approx. 350,000 seeds per lb. Consider 3 million live plants per acre.

Baby Carrots vs Cut and Peel: In our opinion there is "no contest" between the taste of a true Baby type and the "pseudo baby" Cut and Peel which is peeled, shaped and divided into 2-4 pieces (resembling a baby carrot). A true Baby carrot is usually better tasting.

**NEW 91H GOLDFINGER** 49 days. F1 hybrid. Fancy, sweet "baby carrot" that has strong vigorous tops, very uniform, dark orange roots, smooth skin, tiny cores and nice blunt tips. Excellent high quality bright orange interiors, distinct tap roots and very high soluble sugar flavor. High yield possibilities of dark orange "mini carrots." Average length 5-6 in/14-15 cm at a high seeding rate. Replaces Sweet Baby Jane.



Goldfinger

### OPEN POLLINATED NANTES TYPES

**84 CORELESS AMSTERDAM** Forcing or Bak Strain: 55 days. Early maturing strain comes from a most reliable grower in Holland. Bright salmon-red cylindrical roots are 6-7 in/15-18 cm long. Flesh is exceptionally sweet and crisp. Also used by some USA growers as a "Grinder Baby Carrot" (Root is halved and shaped to resemble 2 baby carrots). For untreated seed, order **UT84**.

**82A TOUCHON DELUXE** 58 days. Selected from Nantes Touchon for earliness, uniformity, extra length and exceptional color. Tops average 11-12 in/28-30 cm in length. Roots are typically Touchon - rounded, sloping shoulders, cylindrical, very smooth and nicely stumped. This extremely early carrot colors quickly, roots are almost 7 in/18 cm long. Interior and exterior colors are brilliant orange. One of the most highly colored Nantes we have ever seen. Exclusive.

### HYBRID BERLICUM TYPE

**CULTURE:** Berlicum types can be used like early Nantes types or fully matured for dicing or slicing as a processing carrot. Bolero is being used by a large number of growers for slicing and processing.

**79D BOLERO** 56-66 days. F1 hybrid. Use as an early, long Nantes like Nanco, Presto or Napoli for fresh market and storage, or fully mature as an Oranza/PY60 type for slicing and dicing. Smooth bright orange, 7-8 in/17-20 cm blunt tip roots hold longer in the field without cracking than Napoli and have less green shoulder. Tops average 15 in/38 cm, are tolerant to PM and Alternaria Leaf Spot and VERY strong for mechanical harvesting on sand or muck soils. Excellent for storage. For untreated seed order **UT79D**.



Bolero



Crofton

### HYBRID NANTES TYPES

**COLOR** or carotene pigment is influenced by soil temperature and soil drainage. Carrots color up best between 59-68°F/15-20°C. NEVER use nitrogen to improve root color.

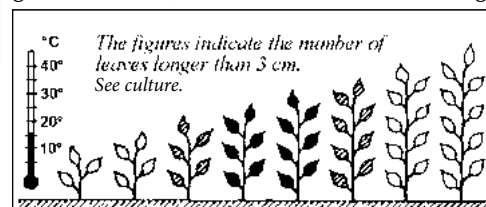
**90T CROFTON** 57 days. F1 hybrid. A great tasting Amsterdam Nantes type for bunching. Extra long 7-8 in/18-20 cm cylindrical roots have blunt tips at maturity, averaging 100-200 grams. Upright, medium long, dark green tops are very strong - suitable for mechanical harvesting. Roots have a rich medium orange interior and exterior color with high Carotene levels. Use for fresh market bunching, slicing or storage. Replaces Evora.

**NEW 91H GOLDFINGER** 56 days. F1 hybrid. An improved Sweet Baby Jane type. Matures as a full grown Amsterdam Nantes at 7-8 in/18-20 cm in length at a medium seeding rate. Dark orange uniform, cylindrical roots taper to blunt tips. Mature sweet flavor is excellent. Medium sized upright tops are very strong and have a tolerance to bolting. Yields are high - sells on sight. Stores well for fresh market.

**90H VITANA** 57 days. F1 hybrid. A high quality European Nantes used for early spring field sowing or under plastic. Very strong, healthy tops. Cylindrical, medium orange, uniform roots average 6-8 in/15-20 cm in length. Provides high yields and sells on sight! For fresh market.

**90D MAGNUM** 58 days. F1 hybrid. Consistently produces long Nantes hybrid roots with machine harvestability. Excellent tasting medium orange roots are cylindrical, average 8.5 in/21 cm in length, have blunt tips at full maturity and good tolerance to breakage. Tops are very strong and have some tolerance to ALT. Growers report excellent yields and good storability.

**90R ROMANCE** 60 days. F1 hybrid. Very uniform, smooth, cylindrical, medium orange roots average 8 in/20 cm in length, have blunt tips excellent sweet taste. Outstanding orange interiors. Medium tops have good attachment, suitable for mechanical harvesting.



NEW	HYBRID CARROTS (M = 1,000 seeds)		1,000 seeds	25 M per M	100 M per M	250 M per M	500 M per M	1,000 M per M	5,000 M per M	
	79D	Bolero	2.49	1.49	1.06	0.83	0.69	0.54	0.48	
	90D	Magnum	2.81	1.68	1.19	0.93	0.78	0.68	0.53	
	90H	Vitana	2.80	1.67	1.19	0.93	0.78	0.67	0.53	
	90R	Romance	3.36	2.01	1.43	1.12	0.94	0.73	0.64	
	90T	Crofton	2.70	1.60	1.14	0.89	0.74	0.64	0.53	
✓	91H	Goldfinger	3.03	1.82	1.29	1.01	0.85	0.66	0.58	
	CARROTS (Open Pollinated)		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb @ per lb	25 lb @ per lb
	82A	Touchon Deluxe	1,500	2.45	5.15	9.85	16.05	19.65	18.60	18.60
	84	Coreless Amsterdam	1,500	3.55	9.60	29.60	48.15	59.00	55.80	55.80



PRINTABLE ORDER FORM

Stokes Seeds Inc.



Maverick

Uppercut 25

Topcut 93

Achieve

Dominion

## HYBRID CARROT

**CULTURE:** The size, shape, color, weight and smoothness of a carrot crop are controlled by growers methods, land type, number of live seeds per ft. of row sown and weather! The number of live seeds per foot that you sow will determine the uniformity, shape and yield of your carrots in a normal weather year. If the soil is crusted by seeder wheels and compacted by heavy rains, germination WILL be erratic and sparse, especially in clay/loam soils where soil crusting is common. If this happens, it is a grower related problem. Always make at least 3 separate seedings, several days apart to avoid weather stressed or misshapened roots. **FLOODING:** If your land is not level and parts of your crop are covered by water at the 5th-8th leaf stage, root length will be severely stunted. **LIVE PLANT POPULATION:** Seed or pellet spacing decisions by the grower are the most critical decisions they will ever make. Proper spacing of the live plants per acre, that emerge WILL determine the shape, length, thickness and root color. **PELLETED SEED:** Prices page 17.

**90A CELLOBUNCH** 61 days. Standard ALB tolerant early Jumbo or Cello for muck soils. Cylindrical 9-11 in/23-28 cm root with blunt tips. Good color and taste.

**82B UPPERCUT 25** 63 days. Imperator hybrid cut and peel/slicer. Excellent dark green strong tops have high tolerance to ALT and PM. Cylindrical, slightly tapered 10 in/25 cm smooth roots are deep orange with small cores and good taste.

**82H HONEYSNAX** 63 days. Produces a long, tapered, slender 9-11 in/23-27 cm mild sweet tender root with blunt tips and deep orange interior color. Use for baby cuts and cut and peel markets. Tolerant to ALT and intermediate PM.

**89H MAVERICK** 63 days. For early cellos and jumbos. Smooth 9-10 in/23-25 cm roots, strong tops. Excellent interior/exterior color and taste. Slightly tapered root. For sandy soils only. Mid tolerance to ALB, bolting, cracking.

**89J SUGARSNAX 54** 63 days. High Brix (sweet taste) Nantes x Imperator type. Cylindrical 8-10 in/25cm in length, blunt tips, very smooth deep orange. Tolerant to ALB and Cercospora. For untreated seed, order **UT89J**.

**84T TOPCUT 93** 63 days. Slender Imperator type. Semi-tube shaped root has excellent color, smooth exterior and ideal diameter for cut and peel 'baby' market. Mature length 10 in/25 cm. Medium tops. Some ALT tolerance.

**91T TROOPER** 63 days. High quality Imperator with a slight taper, excellent exterior and interior color and smooth 9-11 in/23-27 cm with good taste. Use for early fresh market cellos on mineral soils. Erect, dark green, very strong tops are recommended for mechanical harvesting. Good foliage tolerances to ALT and PM.

**81A APACHE** 65 days. Roots are dark orange, average 10 in/25 cm and are very smooth. Used for early cello packs. Tolerant to Alternaria. Sow at 18 live plants/ft.

**90G ENVY** 66 days. Early jumbo. F1 hybrid, 12 in/30 cm long with 1.5-1.75 in/3.8-4.5 cm diameter which may vary depending on spacing. Smooth bright orange roots with blunt tips. For mineral and muck soils.

**90K CR2289** 66 days. F1 hybrid. 9-11 in/23-28 cm roots are very smooth, uniform in shape and taper to a semi-blunt tip. Maintains uniformity under varying populations. Use as a cello/jumbo on muck or mineral soils. Excellent tops. High yield potential.

**88P OLYMPUS** 67 days. F1 hybrid. Excellent cello slicer or bunching type. Uniform 10 in/25 cm smooth tapered roots with great color. Outstanding taste, crisp texture. Medium tops are strong. Good long term storage.

**81K ENTERPRISE** 68 days. Outstanding extra length, 12-14 in/30-36 cm on loose soil. Dark orange roots have small cores with some crack tolerance. Strong tops have good ALT tolerance. Cut and Peel, slicer type.

**91R REBEL** 68 days. High quality 9-12 in/23-30cm mid-season, slower growing variety for cellos on mineral soils. Smooth uniform roots, free of green shoulder, have excellent interior color and taste. Dark green tops tolerant to ALT and PM.

**80H DOMINION** 68 days. An excellent mid season hybrid cello/jumbo for fresh market. Extra long mature roots are cylindrical with semi blunt tips. 12 in/30 cm long and 1.4 in/35 mm thick. Performs well on muck or mineral soils. Strong tops!

## PROCESSING TYPES

**91 ROYAL CHANTENAY** 60 days. Cylindrical O/P. More cylindrical in shape and about 1 in/25 mm longer than the regular Chantenay. Does not have the taper of the Long Chantenay. For untreated seed, order **UT91**.

**83 DANVERS 126** 65 days. The best O/P Danvers type available for processing. Excellent interior color and uniformity. Roots are broad, tapered and slightly stumped. Strong tall tops. Outstanding in heavy soils.

**86B ACHIEVE** 72 days. F1 hybrid. Mid season Flakkee type. Strong 9 in/23 cm roots have good crack tolerance and strong tops for machine harvesting. Use as a late jumbo or dicer type. Upright tops with some disease tolerance. Good tolerance to cracking.

## NOVELTY COLORS

The following are European short daylength types. Do NOT sow before July 10th or they will bolt to seed under our 15 hour days. Be careful of adding some of the purple and blacks to multicolored pastels when bunching. **Black and Purple Haze will easily bleed their darker colors in plastic bags which can stain the lighter pastel shades.**

**NEW 83C CREAMPAK** 63 days. Attractive, creamy yellow, Imperator type roots have strong, dark green tops. Roots are very smooth 9 in/23 cm in length with no green shoulder. Crisp, mild sweet taste. Good tolerance to ALT and PM.

**NEW 83S SNOW MAN** 63 days. Bright white Imperator type with no green shoulder. Smooth skin, uniform shape and good sweet flavor. 8-10 in/23-25 cm root length. Excellent strong tops with good tolerance to ALT and PM.

**82Y YELLOWBUNCH** 63 days. Bright yellow Imperator shaped 8.5 - 9 in/22-23 cm, mild sweet tasting root. Use for cellos, bunching, slicing, juice and cut and peel. Tops have good tolerances to ALT and PM.

**89L PURPLE HAZE** 70 days. F1 hybrid. Imperator-shaped purple carrot. Smooth roots with bright orange centers average 10-12 in/25-30 cm and have very sweet flavor. Vigorous upright tops average 14-16 in/36-42 cm in height. Cooking dissolves the purple color. Hand harvest.



CR2289

Snow Man

Yellowbunch

NEW	HYBRID CARROTS (1 M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	25 M per M	100 M per M	250 M per M	500 M per M	1,000 M per M	5,000 M per M
	80H Dominion			2.99	1.79	1.27	0.99	0.83	0.72	0.56
	81A Apache			2.62	1.57	1.12	0.87	0.73	0.63	0.49
	81K Enterprise			2.77	1.66	1.18	0.92	0.77	0.67	0.52
	82B Uppercut 25			2.60	1.56	1.11	0.87	0.73	0.63	0.51
	82H Honeysnax			2.67	1.60	1.14	0.89	0.74	0.64	0.50
	82Y Yellowbunch	250	2.45	5.82	3.49	2.48	1.93	1.62	1.40	1.15
✓	83C Creampak	250	2.40	5.82	3.49	2.48	1.93	1.62	1.40	1.15
✓	83S Snow Man	250	2.45	6.44	3.86	2.74	2.14	1.80	1.55	1.27
	84T Topcut 93			2.54	1.52	1.08	0.84	0.71	0.61	0.48
	86B Achieve			3.05	1.83	1.30	1.01	0.85	0.73	0.57
	88P Olympus			2.35	1.29	0.91	0.71	0.60	0.52	0.40
	89H Maverick			2.79	1.67	1.19	0.93	0.78	0.67	0.52
	89J Sugarsnax 54			2.54	1.52	1.08	0.85	0.71	0.61	0.48
	89L Purple Haze			6.35	3.73	2.65	2.07	1.74	1.50	1.20
	90A Cellobunch			2.77	1.66	1.18	0.92	0.77	0.67	0.52
	90G Envy			3.17	1.90	1.35	1.05	0.88	0.76	0.59
	90K CR2289			3.22	1.93	1.37	1.07	0.90	0.77	0.60
	91R Rebel			2.94	1.76	1.25	0.98	0.82	0.71	0.56
	91T Trooper			2.94	1.76	1.25	0.98	0.82	0.71	0.56
	<b>OPEN POLLINATED CARROTS</b>			<b>1,000 seeds</b>	<b>25 M per M</b>	<b>100 M per M</b>	<b>250 M per M</b>	<b>500 M per M</b>	<b>1,000 M per M</b>	<b>5,000 M per M</b>
	83 Danvers 126			1.50	0.68	0.48	0.38	0.32	0.29	0.24
	<b>OPEN POLLINATED CARROTS</b>	<b># seeds per pkt</b>	<b>Pkt</b>	<b>oz 28 g</b>	<b>¼ lb 113 g</b>	<b>½ lb 227 g</b>	<b>lb 454 g</b>	<b>5 lb @ per lb</b>	<b>25 lb @ per lb</b>	
	91 Royal Chantenay	1,500	2.45	3.90	12.00	19.55	23.95	22.65	21.63	





Freedom CMS



Casper



Fremont



Artica

## HYBRID CAULIFLOWER

Cauliflower has always been one of our specialties. We have supplied hundreds of commercial cauliflower growers in the North eastern U.S.A. and all parts of Canada for four generations. Cauliflower originated in the Mediterranean countries and is a close relation to the broccoli family. It likes fertile, organically enriched loam, that is fairly well limed with a pH of 6 to 7. Plants are very sensitive to boron deficiency in the soil. Organic growers should refer to the synopsis on cabbage for insect controls. All maturity dates mentioned are the number of days from transplanting (4 or 5 weeks old) plants into the field until heads are harvested. **GRADED SEED:** Our suppliers are now precision grading all cauliflower seed by specific seed count, which indicates the approximate seed size. **MATURITY:** From spring transplants to harvest. Add 7 days for fall varieties. Cauliflower matures through three separate phases. Any check in growth during the transition period between these phases will cause quality problems with the crop. This of course is a weather or grower problem. Make several sowings to minimize crop losses.

**CULTURE:** Approx. 100M - 120M per lb/454 g in frames or flats. **DIRECT SEEDING:** This is possible but very risky! Harvest windows are easier to control by using transplants.

**EARLY CAULIFLOWER:** Sow in the greenhouse from Feb. 1st to Mar. 15th. Control damping off with Truban, Captan, Dexon or Terraclor - after seed is sown and at transplanting time. Transplant into the field about April 15th in rows 30 in/76 cm apart, and 18 in/46 cm apart in the row. Weather conditions influence the growth of cauliflower more than any other vegetable. Hot weather can destroy a crop with stem rot, a prolonged dry spell or the use of old plants will cause Cauliflower to bolt or button up. Cauliflower prefers slow, steady growth and will not stand severe checks of any kind. When transplanting, it is very important to use young, 4 to 5 week old plants. Most growers sow seed in successive plantings, a week apart, to prevent the chance of unfavorable weather conditions destroying their entire crop. The maturity dates are based from the time that the plants are transplanted into the field.

**LATE CAULIFLOWER:** Sow outside in seed beds or flats in May. Sow as thinly as possible, to provide uniform seeding size. Treat seed beds or flats with Diazinon 50%, to control root maggots. If flats are used, transplant into 3 in/8 cm. Jiffy strips in early June. Move transplants to the field in late June or early July. Broadcast a mixture of Diazinon 5% Granular and granular fertilizer on rows before planting. Do not mix insecticides or fertilizers in planting water, since this may cause plant injury. Granular fertilizer used too close to the tender transplants may also injure transplanted seedlings. Heads should be tied before they are the size of a teacup, to provide proper blanching.

**BUTTONING:** Caused by unstable weather (low temps., excessive dry or wet periods). Plants form tiny curds before enough leaves are formed.

**NO HEADS FORMED:** High temperatures keep plants in the vegetative stage until temperatures fall to reasonable levels.

**LEAFY CURDS:** Caused by high temperature, drastic fluctuations in day/night temperatures or improper nitrogen balance.

**RICINESS:** Low temperatures just after planting or a late supply of nitrogen to the plants.

**DISCOLORED HEADS:** Caused by sunlight exposure due to poor leaf cover during the vegetative phase, before curds are formed or poor harvest techniques by the grower. Heads should be cut and not face the sun (keep shaded to keep white). No test (0 in 40,000 plants) will guarantee total freedom from disease problems, unfortunately the technology just has not been invented yet to give this assurance. However the concentrated effort to supply clean seed to growers by all seedsmen now focuses the major cause for disease in the following areas:

(a) contaminated seedling beds or top soils used in seedling flats, (b) the use of year old, unsterilized foam transplanting trays, (c) unsterilized and unfumigated greenhouse or tools, (d) neighbouring disease carrier crops rape or canola, perennial weeds, golden rod, wild turnip, etc, (e) the failure to rotate crops, (f) overhead irrigation with diseased water, (g) improper control of carrier insects from diseased neighbouring fields, (h) failure to clean cultivating equipment between crops. (i) handling infected WET transplants from the greenhouse or beds.

### MAIN SEASON HYBRIDS

**95A FREEDOM CMS** 66 days. New CMS breeding assures less chance of inbreds and increases overall uniformity. Beautiful self wrap CMS version of Fremont - snow white heads are VERY uniform to harvest. Less "fuzz" in extreme weather.

**95Y ATTRIBUTE** 67 days. Growers report that Attribute is similar to Fremont with very white, smooth heavy heads which provide comparable head size and yields. Upright plants provide good self wrap. Harvest window is short - 2 ties.

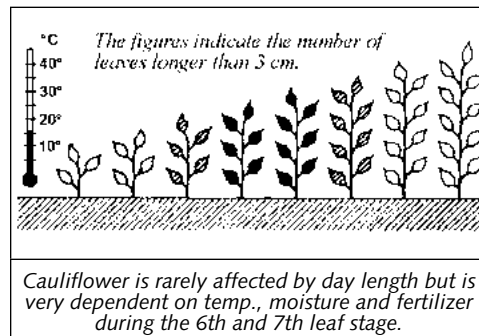
**95E WHITE SAILS** 68 days. Late main season, self wrap hybrid. Out yields White Fox, White Rock types, 2 to 1. Extra large 7.5 in/19 cm heads are very deep, dome shaped. Excellent heavy self wrap leaves. Some tolerance to internal black speck. Extra large heads for processing. Exclusive.

**98E APEX** 71 days. High domed, smooth, large head with excellent self wrap protection. Concentrated maturity, very uniform, dense pure white heads are VERY heavy - which helps maximize carton weights. For shipping, fresh market or processing.

**98W CASPER** 76 days. An excellent processing hybrid for late summer and fall conditions. Vigorous plants provide very good self wrapping leaf protection. The large, dense, smooth white curd has very good processing weight and excellent color. Tipburn tolerant.

**95M CUMBERLAND** 76 days. Late main season self wraps with good heat tolerance. Very uniform later Fremont type. Large vigorous plant, large 7.25 in/19 cm dome head with bright white curds. Quality heads.

**98L ARTICA** 80 days. Heavy, dense, high dome self wrap snow white heads are very tolerant to internal greening during processing. Large upright plants have extra heavy heads which maximize carton weights for shipping or tonnage totals for processing.



### EARLY HYBRIDS

**CULTURE:** Make several sowings to avoid late spring or early summer harvest problems. Use young transplants and deeper cells for better root systems.

**97C SNOW CROWN** 48 days. Well rounded, solid white heads average about 2 lbs/1 kg a piece and measure up to 7.5 in/19 cm across, with good depth. Plants are vigorous, and extremely uniform.

**97E MINUTEMAN** 51 days. Similar high dome shaped heads and snow white color as Rushmore but heads tie up faster. Dark green, upright leaves. Heads average 2.25 lb/1.2 kg.

**98T TERZOLO** 62 days. One of the most outstanding new second early cauliflowers in our trials. Heads are uniform in size, dome shaped, very smooth, bright white in color with good curd density. Medium sized plants provide sufficient wrapper leaves.

**95W FREMONT** 65 days. Our most popular "two cut" main season variety. Very uniform under variable weather conditions. Very white, deep, smooth curds average 7 in/18 cm across. Best self wrap plant habit. Out yields main season O/P's by 30% for fresh market. A fast growing hybrid which must be protected from secondary infections of Black Rot. Watch that levels of calcium and molybdenum are high enough during hot weather.

**95U ACCENT** 65 days. Recommended for summer production. Performs well under warm conditions. Strong, midsize erect plants have good wrapper leaves with tolerance to Tipburn. High quality round curds are smooth and bright white in color. Concentrated harvests.

MAIN	HYBRID CAULIFLOWER (100 M - 120 M = approx. 1lb.)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
95A	Freedom CMS	25	5.30	54.13	48.43	46.72	30.58	27.73	26.40
95E	White Sails	25	2.95	19.27	17.25	16.64	10.89	9.87	9.87
95M	Cumberland	25	4.10	23.81	21.30	20.55	13.45	12.20	11.61
95U	Accent	25	5.30	56.74	50.77	48.98	32.06	29.07	27.67
95W	Fremont	25	5.30	51.17	45.78	44.16	28.90	26.21	24.95
95Y	Attribute	25	5.30	44.85	40.13	38.72	25.34	22.98	21.88
97C	Snow Crown	25	2.45	14.71	13.16	12.69	8.31	7.53	7.53
97E	Minuteman	25	3.75	25.86	23.14	22.32	14.61	13.25	12.61
98E	Apex	25	3.75	24.81	22.20	21.41	14.01	13.14	12.10
98L	Artica	25	3.75	27.83	24.90	24.02	15.72	14.74	13.77
98T	Terzolo	25	3.75	24.83	22.22	21.44	14.03	12.72	12.11
98W	Casper	25	3.75	21.08	18.86	18.19	11.91	11.54	10.80



**Growing Information**  
available at  
[www.StokeSeeds.com](http://www.StokeSeeds.com)



**PRINTABLE ORDER FORM**

Stokes Seeds Inc.



Cumberland



White Sails



Attribute



Terzolo

## HYBRID PURPLE CAULIFLOWER

Popular novelty. Taste and shape of cauliflower, but does not require tying of outer leaves over the heads for protection from sun. **CULTURE:** The sowing dates and general culture of this novelty are the same as late cauliflower. This species is only grown for fall harvest because cool harvest conditions are necessary to promote a deeper purple coloring of the curds. Hot weather turns curds red.

**51D GRAFFITTI** 70 days. Attractive deep purple hybrid. Plants are upright with dark green leaves. Heat tolerant, 16 oz/454 gr, 6 in/15 cm heads. Color turns bluish purple when cooked. The texture of the head is the same as regular cauliflower.

## HYBRID ORANGE CAULIFLOWER

**CULTURE:** Same as regular cauliflower.

**51J CHEDDAR** 68 days. A novelty great tasting hybrid cauliflower with an attractive orange curd that contains high levels of beta-carotene. Plant is medium size with smooth, dome shaped heads. Size, weight and firmness are similar to medium sized white varieties like Minuteman. Suited for fall production only, due to poor heat tolerance. Leave plant untied for maximum color intensity. No disease tolerance.

## HYBRID BROCCOLI/CAULIFLOWER

Growers should consider limiting crops to small plots while becoming familiar with the growing habits of this broccoli X cauliflower used by California growers. Prefers cool, even growing conditions, like west coast areas in spring and fall. Long dry periods in August may cause bolting. Grow like early spring or late fall broccoli or cauliflower. Harvest in the fall, not in mid summer. Curd has a softer broccoli-like texture, but with a cauliflower appearance. Changes color to light green when cooked.

**51X VITAVEVERDE** 76 days. The first CMS F1 hybrid green cauliflower, with a strong vigorous fast growing upright plant, to withstand bracketing and riciness. Curd is heavy and good quality. Plan harvests for early fall months. Space plants like regular cauliflower for good curd leaf cover.

**51W VERDI** 88 days. Medium size, apple green cauliflower heads. Vigorous plants produce better, milder flavor than broccoli or cauliflower. Easier to grow than O/P types but still requires grower attention to fertilizer rates and proper irrigation.

## AAS Winners

All AAS Winners are tested by a network of independent judges who have determined their performance to be superior.

[www.All-AmericaSelections.org](http://www.All-AmericaSelections.org)



NEW	BROCCOLI/CAULIFLOWER (Green) HYBRID (M = 1,000 seeds)		# seeds Per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	51W	Verdi	25	5.60	57.71	51.64	49.82	32.60	31.79	30.78
	51X	Vitaverde	25	5.30	43.59	39.00	37.63	24.63	24.01	23.25
	HYBRID PURPLE CAULIFLOWER		# seeds Per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	51D	Graffiti	25	5.95	107.64	96.31	92.91	60.81	59.30	59.30
	HYBRID ORANGE CAULIFLOWER		# seeds Per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	51J	Cheddar	25	5.95	118.95	106.43	102.67	67.19	60.93	
	HYBRID ROMANESCO		# seeds Per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	51T	Orbit	25	5.60	63.82	57.10	55.08	36.05	35.16	34.04

**CAULIFLOWER:** There is some evidence that unusually hot, wet weather may cause several main season types to grow too fast, between the curd and the head development stage. If this happens, the accelerated growth may cause the plant to become weak and lose its natural tolerances to secondary disease infections that can be spread by cultivating or working in wet fields. If Black Rot symptoms occur in late July, just after the curd forms (a) stay out of the field when it is wet, (b) spray with appropriate chemicals to control the disease and (c) leave plants to freeze solid after harvest.

## HYBRID ROMANESCO

Unique looking heads are not shaped like cauliflower, but are covered with many pointed, spiralling, lime green pinnacles. Heads remain green when cooked. These small towering florets have a milder, sweeter flavor than white cauliflower. For best flavor, harvest heads when they are hand size. Plants are heat tolerant but prefer cooler fall harvests. Use raw or cooked.

**51T ORBIT** 76 days. Attractive lime green spirals, uniform size heads on healthy large plants. Space 18 in/46 cm apart. Plant in summer for fall harvest. Mild nutty taste.



Orbit



Accent



Vitaverde

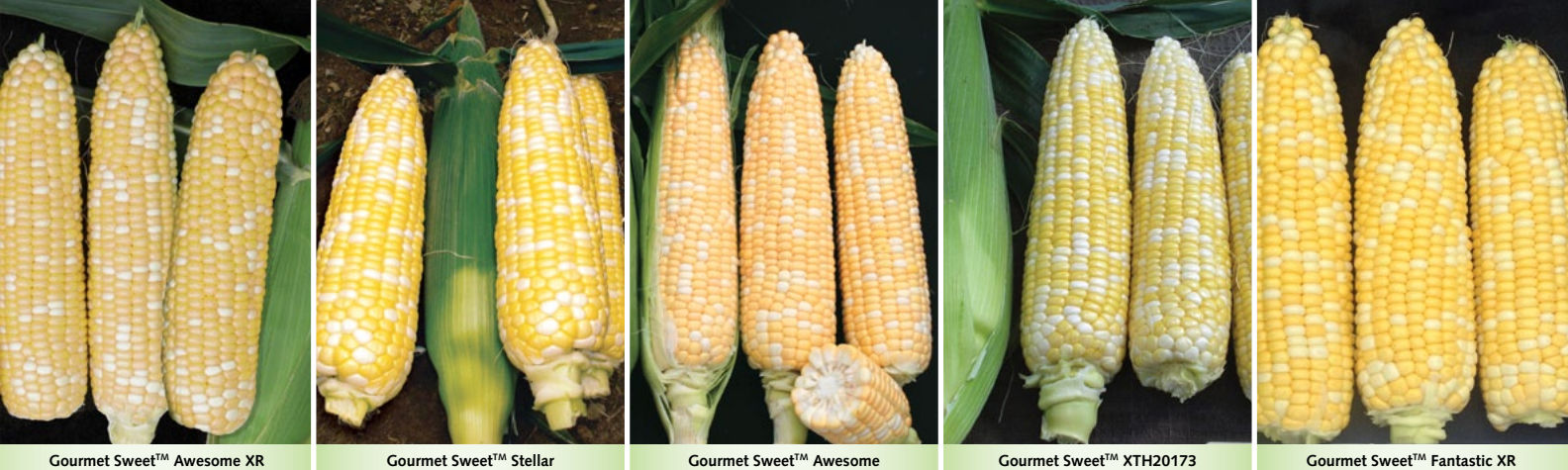


Cheddar



Graffiti





STOKES HYBRID SWEET CORN - GOURMET SWEET™ BRAND sh2 - NEW IMPROVED SUPER SWEET CORN

YELLOW VARIETIES

**G122P XTH1673** 75 days. Good cold soil seed vigor Gourmet Sweet with excellent sweet corn flavor. Ears average 8.25 in/21 cm, 14-18 rows, very nice yellow kernel color, medium cover, very dark green husks. Snaps easy. Single ears harvest easily, tall plants. Some SW and Rust tolerances. Fantastic conversion.

**G121J VISION** 75 days. High quality yellow Gourmet Sweet with great corn flavor and very tender kernels. Ears average 8.25 in/21 cm; 16-18 rows with good tip fill. Strong plants have dark green husks and some tolerance to SCLB and SW.

WHITE VARIETIES

**G122U XTH3674** 74 days. Best early Gourmet Sweet white. Similar to Awesome in its characteristics. Dark green husks give 8.25 in/21 cm cylindrical ears good cover. Well filled to blunt tips. Snaps easy, 16-20 straight rows. Exceptional taste! Some SW and Rust tolerances.

**G116M DEVOTION** 80 days. Excellent shipper or roadside market white! Tall plant, 8 in/20 cm ears, good tip fill and husk cover. 18-20 rows, excellent sweetness and flavor. Tolerant to SW and Rp/1D. Dark green husks.

BICOLOR VARIETIES

**G122M XTH20173** 73 days. Early bicolor. Dark green husks, nice contrasting 8 in/20 cm ear, 16-18 rows, good tip fill and husk cover, straight rows, blunt tips, snaps easy. Great taste and tenderness. Tolerances to SW, Rust (Rp-GDJ).

**G122S XTH2074** 74 days. Dark green husks, nice kernel contrast, cylindrical 8 in/20 cm ear, 16-20 straight rows, blunt tips. Good tip fill and husk cover. Snaps easy. Great taste. Tolerances to SW and Rust (Rp1-G).

**G121N 274A** 74 days. Great second early with good cold soil vigor, extra large ear, good husk and flag package. Exceptional eating quality. Also use for mid season, but no later. Excellent kernel contrast. For untreated seed order **UT121N**.

**G121X FANTASTIC** 75 days. A popular grower choice. 8 in/20 cm bicolor ear, 16-18 rows, dark green husks, strong plant. Well suited for local shipping and farm markets. Some tolerances to heat, SW and SCLB. Excellent sweetness and good corn flavor.

**G122Q FANTASTIC XR** 75 days. Larger 8.25 in/21 cm cylindrical bicolor ear, 16-20 straight rows, blunt well filled tips, good husk cover. Snaps easy. Superb taste. Tolerances to SW and Rust (Rp1-G).

**G122H AWESOME** 76 days. Similar to Fantastic, but has improved husk cover and greater yield potential. Strong single ear plant has good SW and SCLB tolerances. Nice bicolor kernel contrast. Great taste.

**G123C AWESOME XR** 76 days. Outstanding Rp1-G rust tolerant version of Awesome with the same good husk cover and great yield potential. Strong single ear plant also has good SW and SCLB tolerances, long dark green flag leaves. Very easy to snap the well filled ears. Nice bicolor contrast. No tillers. Great taste.

**G122V STELLAR** 77 days. For main season. Nice large ear, comparable to Awesome for yield and strong single ear plants. Cobs have 274A kernel color contrast. Outstanding taste and tenderness. Good Rust and SW tolerance.

**IMPROVED**

- Sweeter taste
- Better tenderness
- Refined kernels
- Darker green husks
- Better shelf life
- Stronger plants
- Uniform plants
- Good seed vigor

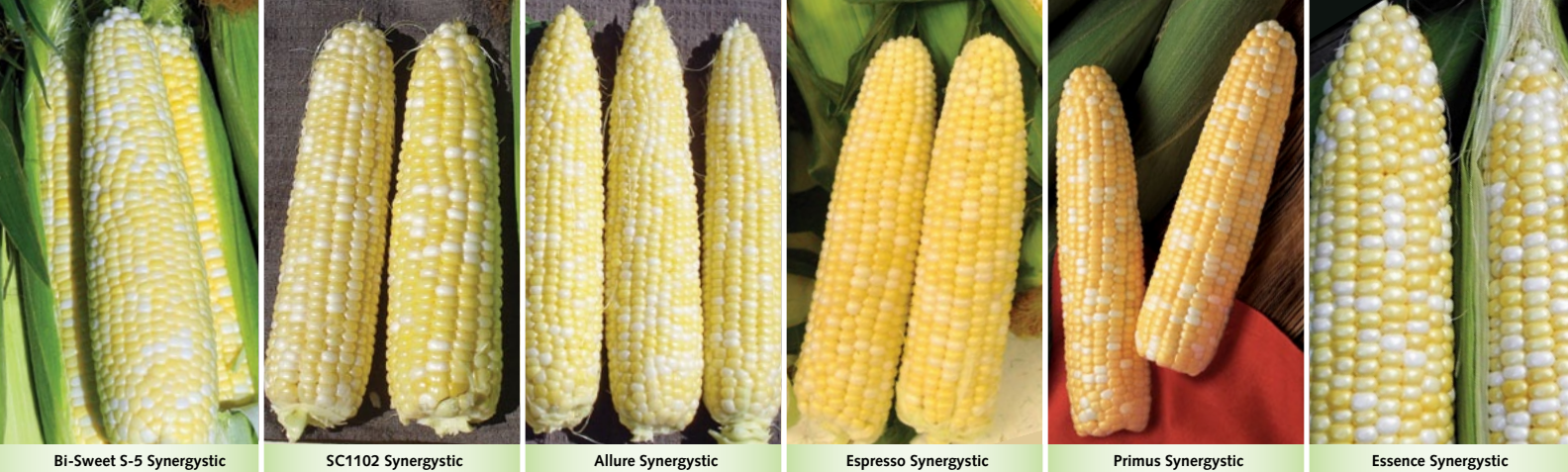
**G118L OBSESSION** 79 days. Popular bicolor with the growers. High quality 7.75 in/19.5 cm ear, 16-20 rows with attractive husk and flag package plus good tip cover. Tolerance to Rp/1D, NCLB and some SW. Excellent taste!

**G118X EX 08767143** 81 days. High quality bicolor augmented sh2 with excellent shipping ability. 8 in/20 cm ears, 16-18 rows, with an attractive dark green husk, good flags and superior eating quality. Good tolerances to Rp/1D and RpG Rust plus SW; NCLB and SCLB.

**G122K 2281** 81 days. Stronger tall plant with better dark green husks and flags than Obsession. Well wrapped ears, excellent tip fill, 16-20 rows of bicolor kernels. Excellent sweetness and flavor. Great bicolor kernel contrast. Medium tolerances to SW and Rp/1D Rust.

"G" prefixed seed will have Cruiser™ or Poncho® treatment to help control Stewart's Wilt. Contains the class ingredient neonicotinoids.

NEW	GOURMET SWEET™ CORN											DISEASE TOLERANCES				250	1,000	10 M	30 M	100 M	500 M
		DAYS	COLOR	EAR SIZE	ROWS	TIP FILL	HUSK COVER	S. WILT	RUST	TENDER	SWEET	FLAVOR	seeds	seeds	per M	per M	per M	per M			
	G121J	Vision	75	Yellow	8¼ in/21 cm	16-18	5	4.5	MT	MS	5	5	5	8.20	16.42	10.13	9.58	8.21	7.99		
	G122P	XTH1673	75	Yellow	8¼ in/21 cm	14-18	4.5	4.5	MT	M	4	5	5	8.20	16.38	10.10	9.55	8.19	7.97		
	G118L	Obsession	79	Bicolor	7¾ in/19.5 cm	16-20	4.5	4	MT	MT	3	3	3	8.70	17.38	10.72	10.14	8.69	7.99		
	G118X	EX 08767143	81	Bicolor	8 in/20 cm	16-18	4.5	4.5	MT	T	3	3	3	9.00	18.04	11.13	10.52	9.02	8.30		
	G121C	277A	77	Bicolor	7½ in/19 cm	18-20	4.5	3.5	MT	M	5	5	5	9.25	18.54	11.43	10.82	9.27	9.02		
	G121N	274A	74	Bicolor	8¼ in/21 cm	18-20	3.5	3.5	MS	MS	5	5	5	8.05	16.07	9.91	9.37	8.03	7.50		
	G121X	Fantastic	75	Bicolor	8 in/20 cm	16-18	4.5	4.5	M	MT	4	5	5	7.95	15.87	9.79	9.26	7.94	7.41		
	G122H	Awesome	76	Bicolor	8 in/20 cm	16-18	4.5	4.5	MT	MT	4	5	5	8.55	17.10	10.55	9.98	8.78	7.98		
	G122J	2171	71	Bicolor	8 in/20 cm	14-18	3.5	3.5	M	M	4	4	4	8.05	16.07	9.91	9.37	8.03	7.50		
	G122K	2281	81	Bicolor	8 in/20 cm	18-20	4.5	4.5	MT	M	3	4	3	8.05	16.08	9.92	9.38	8.04	7.61		
	G122M	XTH20173	74	Bicolor	8 in/20 cm	14-18	4.5	4.0	M	T	5	5	5	8.70	17.40	10.73	10.15	8.70	8.24		
	G122Q	Fantastic XR	75	Bicolor	8 in/20 cm	16-20	4.0	4.0	MR	T	4	5	5	N/A	N/A	10.25	9.69	8.31	7.86		
	G122S	XTH2074	75	Bicolor	8 in/20 cm	16-20	4.5	4.0	M	T	4	5	5	8.10	16.15	9.96	9.42	8.08	7.65		
	G122V	Stellar	77	Bicolor	8 in/20 cm	16-18	4.5	4.5	MT	MT	4	5	5	8.60	17.15	10.58	10.00	8.58	8.12		
✓	G123C	Awesome XR	76	Bicolor	8 in/20 cm	16-18	4.5	4.5	MT	T	4	5	5	10.00	20.01	12.34	11.67	10.01	9.20		
	G116M	Devotion	80	White	8 in/20 cm	18-20	3.5	3	MT	M	3	4	3.5	9.00	18.25	10.37	9.10	8.40	8.05		
	G121U	378A	78	White	8 in/20 cm	16-18	5	5	MT	M	5	4	4	N/A	16.05	9.90	9.36	8.03	7.81		
	G121W	372A	72	White	7½ in/19 cm	16-20	5	3	M	M	4	4	4	7.90	15.76	9.72	9.19	7.88	7.67		
	G121Z	3473	73	White	8 in/20 cm	14-16	5	4.5	MT	MT	5	5	5	8.20	16.38	10.10	9.55	8.19	7.97		
	G122U	XTH3674	74	White	8¼ in/21 cm	16-20	4.5	4.5	MT	M	5	5	5	8.25	16.45	10.15	9.60	8.23	7.79		
STEWART'S WILT & RUST			T = Tolerant MT = Mildly Tolerant		M = Moderately Tolerant MS = Moderately Susceptible		S = Susceptible		TASTE/TENDER 1 = Good		2 = Very Good 3 = Outstanding		4 = Excellent 5 = Best		TIP/HUSK 3 = Good		3.5 = Very Good 4 = Outstanding		4.5 = Excellent 5 = Best		



Bi-Sweet S-5 Synergistic

SC1102 Synergistic

Allure Synergistic

Espresso Synergistic

Primus Synergistic

Essence Synergistic

## SUPER SWEET sh2 HYBRID SWEET CORN

Delay sowing Super Sweets until soil temps reach 65°F/19°C. Cold rain, improper planting depth or the improper use of weed controls (like regular Dual) will reduce soil emergence. Avoid planting just before a cold front or heavy cold rain. ISOLATE: To avoid ruining the taste - isolate all sh2 varieties from all hybrids that are not 100% sh2 types like Synergistics, se/SE Sugary enhanced or multiple gene hybrids - by at least 30 rows.

**120 NORTHERN SUPER SWEET** 62/70 days. Yellow ears average 8.75 in/22 cm, 2 in/5 cm wide, 16 rows, with good husk protection, fills to the tip. Use above the 43rd parallel, (Detroit, MI) sh2 Exclusive.

**128B EXTRA EARLY SUPER SWEET** 67 days. Best early yellow. Extra long 10-12 in/25-31 cm ears have 12-14 rows. Super flavor. Use above the 40th parallel - Columbus, Ohio. For untreated seed order **UT128B**. sh2 Good northern stress tolerance.

**G122W SC1336** 83 days. Yellow sh2. An excellent shipper. Blocky, refined 8 x 2 in/20 x 5 cm, 18-20 row ears mature waist high, snaps easily. Tall strong plant. With excellent taste and texture.

## WHITE SYNERGISTICS

**G116T ILLUSION** 72 days. White synergistic with dark green husks, excellent flag leaves and a nice plant. Cobs average 7.5-8 in/19-20 cm, fill to the tip with excellent high sugar taste and outstanding eating quality. Tolerant to Common Rust and SW. An early white.

**G116R MATTAPoisett** 80 days. Large 8 in/20 cm ear fills to the tip with 16-18 rows of pure white kernels. Sturdy 6.5 ft/2.2 m plant with a 18 in/45 cm ear height. Excellent medium green husk cover.

**G116H AVALON** 82 days. TripleSweet synergistic white has extra large 8.25 in/21 cm, high sugar ears with 16 rows. Medium green husks provide good cover and have very small flags. Sturdy 6 ft/1.83 m plant.

## SYNERGISTIC HYBRID SWEET CORN

Synergistic hybrids were pioneered by Crookham in the early 1990's in an effort to widen the soluble sugar base and increase the sugar levels in su/se types, while maintaining the tender pericarp and creamy textures that SE homozygous types are famous for. SE's are very high in sucrose - a light sugar sweet taste with a shelf life of about 10 days. Sh2's are high in fructose, a heavier syrupy sweet taste like melons which has a longer 16 day shelf life. Sucrose levels can drop quickly in cloudy, cold harvest conditions while fructose levels will drop at a much slower rate. By combining 25% sh2 kernels with 75% SE or su/se kernels, the taste and tenderness is excellent under normal weather.

**G114Q JACKIE** 70 days. Bicolor synergistic 8 in/20 cm ear, 16 rows, nice tip fill and husk color. Intermediate SW and Rust tolerances. Good taste.

**G115M PAY DIRT** 70 days. Bicolor synergistic with good cold soil emergence plus improved tolerances to common Rust and SW. Ears average 8.5 in/21 cm, 14-16 rows, with good tip cover. Great taste!

**G116X ESPRESSO** 70 days. Bicolor synergistic. Excellent cold soil seed vigor. Large cylindrical 8.5 in/20 cm ears, 14-16 rows with nice tip fill, blunt tips and good dark green husk cover. Tolerant to Rust and SW.

**G115S PROFIT** 72 days. Large 8 in/20 cm, 14-16 row bicolor, waist high, ears fill to the tip, covers well. Good flags, tall plants, good cold soil emergence. Excellent taste.

**G114U SC1102** 74 days. Second early bicolor synergistic. Ears average 7.5-8 in/19-20 cm, 16-18 rows. Good soil vigor, works better on heavier soils. Matures after Temptation. Better taste than Temptation. Waist high ears are easy to pick. Good husk cover and tip fill.

**G120S ALLURE** 75 days. Bicolor synergistic with excellent eating quality. Produces a refined 8 in/20 cm ear with excellent tip fill plus great husk cover, excellent flag leaves and dark green husks. Tolerant to Common Rust and SW.

**G116F BI-SWEET S-5** 76 days. Very sweet, tender bicolor 8 x 2 in/20 x 5 cm large ears with 16 rows have excellent tip fill and husk cover. Dark green husks, medium flags. For fresh market sales. Good taste. Exclusive.

**G115K MONTAUK** 78 days. Main season bicolor synergistic with large 8.25 in/23 cm ears, 16-18 rows. Outstanding high sugar taste. Dark green husks good husk cover. Tapered ears fill to tip. Tall 6.5 ft/2.2m plants.

**G120T ESSENCE** 79 days. One of our best eating synergistics. Refined very tender bicolor ears average 8.5x2 in/21x5 cm in size, 14-16 rows fill to the tip with good tip cover, nice flags and strong tall plants.

**G115L KRISTINE** 80 days. Bicolor synergistic. Single stalk 6 ft/1.83 m plant has large cylindrical 8.5 in/21.5 cm husks. 16-18 rows of fill to the tip. Good husk cover.

**G120P PROVIDENCE** 80 days. TripleSweet synergistic bicolor. Large 8 in/20 cm ears, 14-18 rows of bicolor kernels, medium green husks, cylindrical ears with high sugar taste. Small flag leaves.

**G116V PRIMUS** 81 days. Triple Sweet Plus. Synergistic bicolor with 44% sh2 plus 56% Se kernels. Slim ears average 8 in/20 cm in length, with 14-16 rows. Light green husks provide good cover. Superior eating quality. Tolerance to SCLB and Common Rust: Rp1-g and Stewarts Wilt. For fresh market use.

NEW	SUPER SWEET CORN sh2 (Seed sold by weight)	2 oz 57 g	1/2 lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	50 lb @ per lb	100 lb @ per lb	500 lb @ per lb	1,000 lb @ per lb	DISEASE TOLERANCES SW RUST NCLB SCLB			
	120 Northern Super Sweet	9.85	18.80	24.20	21.65	19.73	19.24	18.88	17.91	17.31	S	MS	MT	MT
	128B Extra Early Super Sweet	9.15	17.55	22.60	20.20	18.41	17.95	17.62	16.71	16.15	S	MS	S	MS
	SUPER SWEET CORN sh2 (Seed sold by seed count M = 1,000 seeds)	250 seeds	1,000 seeds		10 M per M		30 M per M	100 M per M	500 M per M		DISEASE TOLERANCES SW RUST NCLB SCLB			
✓	G122W SC1336 (Yellow)	9.00	18.04		11.13		10.52	9.02	8.30		MT	MT	-	-
	SYNERGISTIC CORN (M = 1,000 seeds)	250 seeds	1,000 seeds		10 M per M		30 M per M	100 M per M	500 M per M		DISEASE TOLERANCES SW RUST NCLB SCLB			
	G114Q Jackie	9.15	18.57		10.55		9.26	8.55	8.19		MT	M	M	-
	G114U SC1102 (Bicolor)	8.45	17.15		9.74		8.55	7.89	7.57		MT	MS	MT	MT
	G115K Montauk	9.25	18.82		10.69		9.38	8.66	8.30		MS	M	MS	-
	G115L Kristine	7.20	14.60		8.30		7.28	6.72	6.44		MT	MT	MT	-
	G115M Pay Dirt	5.95	12.12		6.89		6.04	5.58	5.35		MT	M	M	-
✓	G115S Profit	6.75	13.72		7.80		6.84	6.32	6.06		MT	MT	MT	-
✓	G116F Bi-Sweet S-5	6.50	13.23		7.52		6.59	6.09	6.01		MT	MT	-	-
	G116H Avalon (White)	6.70	13.63		7.74		6.79	6.27	6.01		MT	S	MT	-
	G116R Mattapoisett (White)	9.05	18.36		10.44		9.15	8.45	8.10		MT	MT	MT	MT
	G116T Illusion (White)	6.85	13.89		7.89		6.92	6.39	6.30		MT	MT	MT	MT
	G116V Primus	8.50	17.31		9.84		8.63	7.97	7.64		MT	MT	MS	T
	G116X Espresso	6.90	13.81		8.52		8.06	7.09	6.91		MT	MS	MT	MT
	G120P Providence	6.85	13.94		7.92		6.95	6.42	6.15		MS	T	M	MT
	G120S Allure (Bicolor)	7.20	14.67		8.33		7.31	6.75	6.66		MT	MT	MT	MT
✓	G120T Essence	7.20	14.67		8.33		7.31	6.75	6.47		MT	MT	MT	-





Stokes Extensive Sweet Corn Trials



Colorow TSW®



Edelweiss TSW®



Welcome TSW®

## HYBRID SWEET CORN - SUGARY ENHANCED se/SE YELLOWS & WHITES

Sugary Enhanced is divided into two classes - regular se (heterozygous) and the new modified endosperm SE (homozygous). Both these types have some advantages and disadvantages when compared to Super Sweet (Sh2 types) and the Normals (su, su+ and su++). Sugar Enhanced types have very tender kernels. This makes them easier to chew for the consumer but too tender for mechanical harvesting or long distance shipping. Some SE and se types adapt poorly to stress. Use should be limited to roadside stands, U-pick, local markets or short shipping distances. Chief advantages over Super Sweet - darker, fresher green husks, better early seed vigor (not as good as normals) cheaper seed cost and less isolation. Although taste is much sweeter than Normals, Sugar Enhanced types should be sown 7 to 10 days later than extra early Normals (sow se types May 12th and SE types May 17th). Cobs mature 18-20 days from .5 silk. Several sowings should be made to avoid stress periods during silking. Most SE or se types have white silks for canning or processing. Isolation is not really necessary (like Super Sweet) but we find taste improves slightly with isolation. SOIL type is important. Heat units are higher in sandy gravel than sand. Cold soils like clay loam will delay germs. 12-14 days. Seeds germinate at 62°F/17°C, seed count averages 2,000-3,400 seeds per lb/454 gr. SEEDING RATE: Approx. 20M seeds per acre (18 m live plants per acre), higher rates cause more suckers and smaller ears especially with the large cob types. WIND DAMAGE: Large ear and double ear types can also become top heavy in sandy soils at maturity. If you are growing in a windy area - hill plants up, when they are 12 in/30 cm high to provide a more solid root system and surround these types with large blocks of earlier varieties, which will help to provide a wind break for later maturing large ear types. SEED DEPTH: Most growers sow at an average depth of .75 in/30 mm using large flats in normal soil temps. At seed counts over 3,500 seeds per lb. a shallower depth is recommended. Never sow a group of varieties the same day, at the same depth-if they are different seed sizes. ISOLATION: Keep whites, bicolors and yellows 30 ft/9.2 m apart to prevent cross pollination.

MATURITY DATES: We provide two dates on some varieties in each class because these are the varieties that are exposed to "grower related stress"; cold, wet weather; various seeding depths; chemical weed controls; early, warm loose soil; and late, cold clay loam. The first date suggests the maturity from seedling emergence to harvest, the second suggests the maturity from seeding to harvest, in warm, sandy loam at 60°F/15°C day/night soil temperatures for at least 5 consecutive days. Some varieties have a better history of cold soil vigor than others. Sweet corn seed takes about 6-9 days to sprout at the above temperatures, providing it does not get too much moisture. It could take 10-12 days in colder soils. Please see page 23 for more information.

### DISEASE TOLERANCE LEGEND

The ratings below are based on Dr. Pataky's disease screening trials at the University of Illinois.

0-1..... T..... Tolerant  
2-3..... MT..... Moderately Tolerant  
4-6..... M..... Moderate  
7-8..... MS..... Moderately Susceptible  
9-10..... S..... Susceptible

## GENERAL SWEET CORN CULTURE FOR ALL TYPES

CULTURE: 2 oz/57 g sows about 75-100 ft/23-31 m of row, or 4 rows of 25 ft/762 cm with 20 hills at 2-3 seeds per hill spaced 10 in/25 cm apart. Space rows 32-36 in/81-91 cm apart. Wider rows will cause the pollen to drop between the rows, resulting in unpollinated ears. Plant each variety in rows side by side (minimum 4-6 rows) for proper pollination. Most growers use 10-15 lbs/4-6 kg of seed per acre depending on seed size. This is critical! Never sow several different seed sizes at the same rate. Seed spacing will effect the size of the cobs, tip cover, the number of suckers per plant, etc. SEED SIZE: This averages SE and se (2M-3.5M) per lb and sh2 (3.3M-4.5M seeds per lb/454 gr). Most growers still recommend about 19M-20M seeds per acre. Allowing for germination and seeding depth - you should plan for a stand of 18M live seeds per acre under normal soil temperatures. This figure must be increased slightly with earlier, risky sowing dates. Early varieties can be spaced 10 in/25 cm apart, later types 10-12 in/25-30 cm apart in the row. This greater space between plants is particularly important with larger cob types or double ear varieties which need the extra room to properly fill out. Crowding the large ear types will cause half pollinated ears, unsaleable cobs and poor tip cover. SEED DEPTH: This depends on weather conditions at planting time and your soil type. For early crops use sandy soils not clay loam, for higher soil temps. Various types of sweet corn can vary in seed size from 2-5 m per lb/454 g; so it is important for commercial growers to use some good common sense regarding seed size and seed depth. Large flats and thick of SE types are usually sown at 1.5 in/4 cm at normal ground temps in sandy loam (slightly deeper in cool ground). Small rounds

and Sh2 types (which can run over 4 m per lb/454 g) - should be sown shallower at 1.25 in/3 cm. If you plant 3 different varieties with the same maturity date (but different seed sizes) - at the same depth - the smallest seed will germinate and mature several days later than regular size seed (unless you plant it shallower). SEED GERMINATION: Seed prefers a 60°F/15°C soil temp for proper germination, but some growers will risk extra early sowings at 50°F/10°C, in sandy or gravel soils. If this gamble fails - blame the person that took the gamble. Don't blame the seed. If night temps drop severely, you WILL delay seed emergence and affect the maturity or harvest date by several days or a week. ORGANIC GROWERS: Should only sow untreated seed after June 5th, when soil temps increase to 60°F/16°C and the cold, wet spring weather is over. However, if cold soil or weather conditions persist seeding dates using untreated seed must be delayed to prevent unprotected seed from rotting in the ground. Untreated seed is marked UT in the last line of the variety description. TREATED SEED: Cold soil temperatures during May will cause sweet corn to rot in the soil or be destroyed by soil borne Smut unless it is protected with fungicide.



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### se/SE HYBRID CORNS

#### se - Heterozygous (se x su)

High sugar. 1 sugary enhanced parent (se), 1 normal parent (su).

#### SE - Homozygous (se x se)

Highest sugar. Both parents are sugary enhanced (se).

### SECOND EARLY se/SE YELLOWS

**G107J WELCOME TSW®** 65/72 days. Improved version of Patton, with good soil emergence. Ears are larger, 8 in/20 cm with 14-18 rows, good tip cover, green husk. Average size 66 in/168 cm plant, 15 in/38 cm ear height. Excellent taste. SE

**107R COLOROW TSW®** 67/74 days. An improved version of King Arthur with an extra high sugar taste, a uniform 74 in/1.9 m clean plant and 13 in/33 cm ear height. Large 8.5 in/22 cm ear, 16-18 rows of golden kernels. SE

### EARLY se/SE WHITE

All whites must be isolated from yellows or bicolors by a minimum of 30 rows, or you will mature bicolors NOT whites. Se/SE whites must also be isolated from sh2 whites, or the cross pollination between sh2 and SE will ruin the taste of the sh2 white crop.

**G116P EDELWEISS TSW®** 73 days. Best second early white with exceptional flavor! Blocky ears average 8 in/20 cm in length; 14-16 rows of pearly white sugar sweet kernels, dark green husks, waist high cobs and 6.5 ft/2.2 M plants. Widely adapted SE, White.



Researching The Best



Comparing Corn Varieties

M	HYBRID SWEET CORN		250	1,000	10 M	30 M	100 M	500 M	1,000 M	DISEASE TOLERANCES			
	M = 1,000 seeds		seeds	seeds	per M	per M	per M	per M	per M	SW	RUST	NCLB	SCLB
	G107J	Welcome TSW®	3.55	7.11	4.38	4.15	3.65	3.55	3.48	M	MS	-	MT
	107R	Colorow TSW®	3.65	7.30	4.50	4.26	3.75	3.65	3.58	M	M	M	MT
	G116P	Edelweiss TSW®	6.10	12.17	7.50	7.10	6.25	6.08	5.96	M	M	MT	MS





Trinity

Fastlane

Chippawa

Navajo

Brocade TSW®

## HYBRID SWEET CORN - SUGARY ENHANCED se/SE BICOLORS

**113E SPEEDY SWEET** 57/64 days. Similar to Quickie, ears average 7.5 in/18 cm, are tapered with 12-14 rows of bicolor kernels. Excellent cold soil vigor. Use above 43rd parallel (Detroit, Mich.) **SE**, Exclusive.

**114E FLEET** 58/65 days. Ears average 7.75-8 in/20 cm, 12-16 rows, good tip fill, straight rows, medium green husks. Use above 43rd parallel (Detroit, Mich.) **SE**

**G114B TRINITY** 59/66 days. Large, early 8 in/20 cm ears, 14 rows, with good tip cover and ears are filled to the tip. Good cold soil vigor, 72 in/183 cm plants, 18 in/46 cm ear height. Great taste. Some Stewart's Wilt tolerance. Use above 41st parallel. **SE**

**113Y JESTER II** 60/67 days. Cylindrical 8.25 in/21.5 cm ears have blunt well filled tips, 14-16 rows, better husk cover, taller plants, great taste. Use above 41st parallel (Cleveland, Ohio). **SE**, Exclusive.

**G114V FASTLANE** 61/67 days. Cylindrical 8.5 in/21.5 cm ears have blunt, well filled tips, 14-16 rows, good husk cover and great taste. Good cold soil vigor. Use above 41st parallel (Cleveland, Ohio). **SE**

### STEWART'S WILT

Mild winters and growers who fail to control late summer field infestations of flea beetles that carry the bacteria in their stomachs and overwinter to infect next years' crop - are the major cause of the disease. Yellow stripes in the leaves appear between late June to early July. Stewart's Wilt can affect the yields of moderately susceptible varieties from 10% - 40% if the disease strikes when the plants are in the 5th leaf stage, the weather is hot and moist and surviving flea beetles from the previous season begin to spread the disease. Growers who fail to apply the proper insecticide spray program in June to control these insects are asking for trouble. Severe sub zero winters will limit the survival of flea beetles in the spring. Spring and fall spray programs are critical to controlling the spread of this disease. In milder areas rotate the crop with peas, tomatoes, potatoes, beans or carrots. Plow under old cornstalks and leaves. Maintain a well-balanced soil fertility to avoid spring stress. Some varieties show varying degrees of SW tolerance. Very few (if any) are immune to this disease. SW is common below the 40th parallel (Rochester NY) **Cruiser™** and **Poncho®** treatments help control this disease.

A "G" prefix indicates these treatments on the seed.

### MAIN SEASON BICOLORS

**114T BON JOUR TSW®** 64/70 days. Short 7.75 in/18 cm ear with 14-16 rows. Excellent taste. 20 in/50 cm husk height, good tip cover. NCLB tolerance. Use above 41st parallel (Cleveland, Ohio) **SE**

**112R NAVAJO** 67 days. Large 8 in/20 cm SE bicolor with 16 rows, blunt tips, good tip cover, outstanding taste and tenderness. For mechanical harvest. Mild tolerance to SW and Rust. Widely adapted. Exclusive.

**G113Q TEMPTATION** 68 days. Widely adapted. Good cold soil performance for early planting. Excellent tasting 8 in/20 cm ears, 16 rows, with waist high cobs for easy hand harvests. Some tolerance to Smut. **SE**

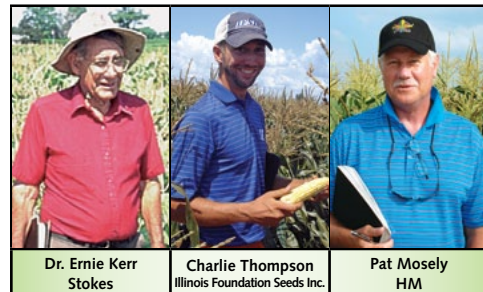
**114K CHIPPAWA** 70 days. Widely adapted. Large 8.75 in X 1.75 in (22 cm x 4.5 cm) blunt tip ears, 16-18 rows, excellent tip fill and kernel contrast. Husks are medium dark green with nice tip cover and flags. Sturdy 7 ft/214 cm plant, 20 in/50 cm ear height. very tender! Excellent eating quality. Moderate Rust and Stewarts Wilt tolerance. **SE**, Exclusive.

**G118K LUSCIOUS TSW®** 73 days. Extra large cylindrical blunt 8.5-8.75 in/22-23 cm, 16-18 row ears. Easy to pick, waist high ears have good tip fill and cover. Great taste, very tender! **SE**

**G114H ACCORD** 78 days. Produces single ears for mechanical harvests on strong, clean, well rooted dark green plants. Large 8.5 in/21cm ears fill to nice blunt tips with 18-20 rows. Medium tolerance to **SW**, **SE**

**G114P BROCADE TSW®** 81 days. Amazing taste! Widely adapted. Large blunt 8.5 in/21cm ears, 16-18 rows and 20 in/51cm ear height on sturdy 6.5 ft/2.2m. dark green plants. Some SW and Rust tolerance. **SE**

**113W DELECTABLE** 82 days. Popular extra large 9 in/23 cm ear with 16-18 rows. Plants set large single cobs waist high, for mechanical harvesting. Dark green husks provide fair cover and flags. Tolerant to Rust. **SE**

Dr. Ernie Kerr  
StokesCharlie Thompson  
Illinois Foundation Seeds Inc.Pat Mosely  
HM

### BREEDING SWEET CORN

During the 1980's and 1990's Stokes was heavily involved in the production of high sugar, extra early, inbred parent lines of SU, SE and sh2 types. Dr. Ernie Kerr worked very closely with breeders from Crookham, Mesa Maize, IFS and others, incorporating their parent lines with ours to make several Stokes hybrids in all three types. Stokes developed the first Gourmet Sweet in 1990.

At Stokes, our research team tastes and takes extensive notes on 800 experimental hybrids each year.

*Bicolor SE types should be isolated from yellow or white SE varieties and ALL sh2 types.*

### PLANTERS PLATES

Planters plates are available by calling  
**402-464-6367**

NEW	SWEET CORN SE		250	1,000	10 M	30 M	100 M	500 M	DISEASE TOLERANCES						
	(M = 1,000 seeds)		seeds	seeds	per M	per M	per M	per M	SW	RUST	NCLB	SCLB			
	112R	Navajo	4.95	9.89	6.10	5.77	5.08	4.94	MS	MS	MT	-			
	G112R	Navajo	N/A	N/A	6.48	6.13	5.39	5.25	MS	MS	MT	-			
	G113Q	Temptation	N/A	N/A	8.21	7.20	6.65	6.37	MS	S	MS	S			
	113Y	Jester II	4.95	9.89	6.10	5.77	5.08	4.94	S	S	MS	-			
	G114H	Accord	6.10	12.19	7.52	7.11	6.26	6.09	MT	MT	MT	M			
	114K	Chippawa	4.95	9.89	6.10	5.77	5.08	4.94	MT	MT	MT	MT			
	G114K	Chippawa	N/A	N/A	6.48	6.13	5.39	5.25	MT	MT	MT	MT			
	G114P	Brocade TSW	5.00	10.04	6.19	5.85	5.15	5.02	MT	MT	M	MT			
	114T	Bon Jour TSW	5.85	11.66	7.19	6.80	5.98	5.83	MS	MS	T				
	G114V	Fastlane	N/A	13.49	8.32	7.87	6.92	6.74	MS	MT	MS	-			
	G118K	Luscious TSW	N/A	N/A	5.39	5.10	4.49	4.37	MS	MS	MT	M			
	SWEET CORN		2 oz.	½ lb	lb	5 lb@	25 lb@	50 lb@	100 lb@	500 lb@	1,000 lb@	DISEASE TOLERANCES			
	se/SE Bicolors		57 g	227 g	454 g	per lb	per lb	per lb	per lb	per lb	per lb	SW	RUST	NCLB	SCLB
	113E	Speedy Sweet	6.70	12.85	16.55	14.80	13.48	13.15	12.90	12.24	11.83	MS	S	S	S
	113W	Delectable	N/A	12.20	15.70	14.05	12.81	12.50	12.26	11.63	11.24	M	MT	M	MT
	G114B	Trinity	6.55	12.50	16.10	14.40	13.11	12.79	12.55	11.91	11.50	MT	MS	MS	MS
	114E	Fleet	6.65	12.70	16.35	14.65	13.33	13.00	12.76	12.10	11.69	MT	M	S	M



Accord





Fiesta



Red Husk Spectrum Mix



Earth Tones Dent



Painted Mountain



Cutie Pops

## ORNAMENTAL CORN

**CULTURE:** Isolate these varieties from all other sweet corn to prevent cross pollination. The first three large types below are treated.

**396B FIESTA** 92 days. Matures 8 to 10 days earlier than most strains of Calico Indian corn. Ears average 8.5 in/21 cm in length with 50% purple husks. Shorter plants have some wind tolerance. Multicolored ears.

**396A INDIAN ORNAMENTAL BLEND** 105 days. Nice 8-10 in/20-25 cm ears are 2 in/5 cm thick with a full range of glossy colors, 15-20% purple husks, strong plants. Replaces Calico Indian.

**396H GORGEOUS INDIAN** 107 days. F1 hybrid. Extra long 9 in/22 cm ears with glossy flint kernels that are breathtakingly beautiful in color. Sturdy plants are wind tolerant and produce very high yields of large, uniform ears.

**1707B FIELD OF DREAMS** 60-72 in/151-182 cm Novelty bicolor corn foliage with wide, medium green and white stripes running through the leaves, with a slight pink edging. Plants should stay short at 36-48 in/90-120 cm in large containers. A mix of 6 in/15 cm deep burgundy, yellow and blue cobs. Crop time 5-7 weeks. Pkt. (10 seeds) \$5.50; 100 seeds \$25.10; 250 seeds \$53.05; 1 000 seeds & over \$173.65 per M.



Field of Dreams

## MINIATURE ORNAMENTAL CORN

**CULTURE:** Sow mini corn in double rows at 40,000 seeds per acre.

**392L LASER MIX** 90 days. Extra early slim, multicolor, miniature popcorn 4.5 in/11 cm in length. About 75% of the kernels on the tiny cobs have striped kernels plus beautiful, contrasting bicolor combinations. **pvp**. Untreated.

**396R RED HUSK SPECTRUM MIX** Miniature 4.5/11 cm slim popcorn - bicolor, tricolor and single colored cobs with both red and bleached white husks when dried. Untreated.

**392B CUTIE POPS** 100 days. Multicolored miniature popcorn. Use as a baby 4 in/10 cm Indian corn for dried bouquets or harvest tiny rainbow colored seeds for miniature popcorn. Untreated.

## SEPARATE COLORS

**392M NEON PINK** 100 days. Bright pink and dark pink kernels, 4 in/10 cm long. Plant in blocks of 4 rows or more. Untreated.

**392N SHADES OF BLUE** 105 days. Blend of sky blue and violet blue kernels, 4 in/10 cm long. Plant in blocks of 4 rows or more. Untreated.

## DENT CORN

**396C EARTH TONES DENT** 85 days. An earlier blend of pastel shades of brown, gold, mauve, pink, green and blue dent/field corn. Large 9 in/22 cm ears, kernels are not shiny. For decorations, grind into flour or use for bird feed. Untreated.

## FLOUR CORN

**392G PAINTED MOUNTAIN** 85 days. A Native Indian decorative flour corn. Bred for short season, cold soil areas. Ears average 7 in/18 cm, multicolored kernels contain soft starch which produces corn flour and hominy. Very hardy, beautiful colors. Untreated.

## BROOM CORN

**CULTURE:** Sow in May to mature Sept. 1,430 seeds per oz/28 g.

**391B BROOM CORN MIXED COLORS** 105 days. A blend of deep brown, rust, copper and wheat foliage colors which can be used to make pioneer brooms or rustic wreaths. Treated seed.

## HYBRID POPCORN

**CULTURE:** The kids will take a special interest in the garden the day you plant popcorn seed! Sow May 20th. .5 in/13 mm deep in hills of 3-4 per group, 2 ft/60 cm apart in rows 2.5 ft/76 cm apart. Minimum soil temperature for proper germination and culture is the same as sweet corn. **HARVEST** in late Aug. or Sept. when small plump ears are about 5 in/13 cm long. Let the cobs dry (unhusked) in the basement for about a week, then remove the husks and strip the dried kernels from the cob. At this stage they are ready to pop. Seed is untreated.

**392K ROBUST 98114W HYBRID** 108 days. Plants are slightly taller, higher yielding and have larger 7.75 in/19 cm ears. Kernels are deeper, pure white and have the same excellent eating quality as Robust 21-82W, which it replaces. Kernel count averages 77 per 10 gr. and a 45MWVT popping volume. Isolate from sweet corn.

**392J ROBUST 128-YH HYBRID** 110 days. Our best yielding hullless yellow hybrid popcorn for short season areas. Tall plants are well-rooted and healthy at harvest, extra 7.5 in/19 cm length and double ears with about 67 kernels per 10 gr. and a 45 MWVT popping volume. Isolate from sweet corn.

## STRAWBERRY POPCORN

**392A STRAWBERRY POPCORN** 3 ft/90 cm. 100 days. Plants bear small, strawberry shaped cobs of corn, excellent for popping or ornament. Cobs 2 in/5 cm long are deep crimson.



Robust 98114W

NEW	POPCORN AND ORNAMENTALS	# seeds Per pkt	Pkt	1 oz 28 g	2 oz 57 g	1/4 lb 113 g	1/2 lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	50 lb @ per lb	100 lb @ per lb
	391B Broom Corn	100	2.55	5.95		11.65	22.65					
	392A Strawberry Popcorn	25	2.45	N/A	4.95	9.45	12.15	10.90	9.92	9.68	9.50	
	392B Cutie Pops	25	2.45	4.25		8.75	13.20	17.00	15.20	13.85	13.51	
	392G Painted Mountain	25	2.45	7.25		13.75	20.80	26.80	23.95	21.83		
	392J Robust 128-YH Hybrid	N/A	N/A	4.15		7.95	10.20	9.15	8.33	8.12	7.97	
	392K Robust 98114W Hybrid	N/A	N/A	4.45		8.55	11.00	9.85	8.95	8.73	8.56	
	392L Laser Mix	25	2.45	8.55		15.35	23.25	29.85	26.75	24.34		
✓	392M Neon Pink	25	2.45		7.50	14.35	18.45	16.50	15.03	14.66	14.38	
✓	392N Shades Of Blue	25	2.45		7.50	14.35	18.45	16.50	15.03	14.66	14.38	
	396A Indian Ornamental Blend	N/A	N/A	3.10		4.15	5.30	4.75	4.31	4.21	4.13	
	396B Fiesta	N/A	N/A	4.40		8.45	10.85	9.70	8.85	8.63	8.47	
	396C Earth Tones Dent	25	2.45	N/A	8.05	13.60	17.50	15.65	14.27	13.92	13.66	
	396H Gorgeous Indian Hybrid	25	2.45	N/A	7.95	14.00	18.05	16.15	14.69	14.33	14.06	
	396R Red Husk Spectrum	25	2.45	N/A	7.95	15.20	19.55	17.50	15.95	15.56	15.26	



Broom Corn



Strawberry Popcorn





Intimidator

Stonewall

Rockingham

Diomed

## STOKES HYBRID SLICING CUCUMBERS

**CULTURE:** Approx. 1,000 seeds per oz/28 g; 16,000 seeds per lb/454 g. Cucumbers like a long, warm growing season of at least 65 days or more. As plants are quite susceptible to Cucumber Mosaic and various mildews in damp or foggy regions, you should therefore carefully note the disease tolerance of each variety before ordering. Sow seeds in 3 in/7.5 cm (or larger) peat pots, indoors May 1st in the northeast, about 4 to 5 weeks before your last spring frost. Maintain a soil temperature of 70°F/21°C for proper germination. If pots are covered with plastic during germination period, be careful NOT to place them in full sun, or you will cook the seeds. Transplant outdoors about June 10th to avoid cool nights and blossom drop. Make sure pots are well watered and dusted with an insect control before transplanting, to control striped and spotted cucumber beetles which appear about June 10 - July 15th. **MULCHING:** Weeds can be controlled and crops speeded up with 4 ft/122 cm plastic or straw mulch on raised beds. Space slicers 4-5 ft/122-152 cm apart. Add nitrogen in a nitrate form (NO3) to raised bed before adding plastic. **DO NOT** use any chemical weed controls or fungicides in soils covered by plastic. **DIRECT SEEDING.** Sow outdoors at 1.5 lbs/680 g seed per acre (approx. 24,000 seeds) 2 weeks after your last spring frost depending on soil temps. Cucumber seed will not sprout in cold soils. Rotate crops each year. **NOTE:** Maturity dates indicate the days to mature plants from two week old transplants. Add 14 days for seeded-harvest dates. For maximum pollination use one beehive per acre. Gynoecious - all female hybrids with percentage of open pollinated monoecious male pollinators added. Monoecious - contain male and female blooms on the same plant. **DROUGHT:** Dry weather during fruit setting periods will cause shorter fruit. If this happens, remove the short fruit, irrigate if possible and wait for the next set which will be normal size if plants are watered. Use Stonewall and Cobra for extra length. **"F" prefixed seed contains the class ingredient neonicotinoids.**

**146H INTIMIDATOR** 53 days. Our earliest slicer. Dark green premium quality 7.5-8.5 in/18-22 cm fruit have good diameters, uniform straight shape and a slight taper at both ends. Plants are tolerant to CMV, DM, PM, ALS, Anth2 and Scab. Gynoecious.

**147E SPEEDWAY** 54 days. Dark green, early version of Dasher II. Fruit have uniform all green gene, average 8.5 in/22 cm in length, slightly tapered, medium size plant. Tolerant to CMV, DM, PM, ALS, Scab, ANTH, ALT and SEMP. Moderately vigorous vines consistently bear high quality cucumbers. Gynoecious.

**146J TALLADEGA** 55 days. High yielding, continuous setting type with very dark green, smooth fruit, no ridging, few spines and very little "yellow belly". 7.5-8.5 in/18-22 cm long fruit are tolerant to CMV, PM, WMV2, DM, ALS, ANTH-2 and Scab. Gynoecious.

**147F THUNDER** 55 days. Extra long, 8.5 in/22 cm slim, dark green fruit produce well under stress and have the uniform dark green gene. Tolerant to CMV; DM; PM; ANTH; ALS and Scab. Gynoecious.

**147L STONEWALL** 55 days. Top performer in recent trials for "highest number of No. 1 fruit, shape, size, fruit quality and storage ability." very straight dark green 8.5 in/22cm fruit, high yields. Tolerant to CMV, PM, DM, ALS and ANTH. Gynoecious. For untreated seed, order **UT147L**. Patented Variety.

**147M CUTTER** 55 days. This dark green American slicer is shorter and blockier than Dasher II. High packout potential of premium 7.5-8 in/18-22 cm high quality fruit. Intermediate tolerance to CMV, PM, WMV2, ZYMV and PRSV.

**149A DASHER II** 55 days. Standard, 8.5 in/22 cm, very slim, 2.25 in/6 cm in width, darker green fruit. Plants are compact, heavy yielders and carry a tolerance to ALS, ANTH, CMV, DM, and Scab. Gynoecious.

**147A DARLINGTON** 56 days. Maintains optimum 8-8.5 in/20-22 cm length under Northeast conditions. Produces a consistent yield of select, straight fruit with excellent dark green color throughout the harvest season. Provides tolerance to ALS; ANTH; WMV2; ZYMV; PM; TLS and Scab. Gynoecious.

**147Q SV4719CS** 56 days. Uniform dark green hybrid gynoecious slicer averages 8 x 2.25 in/23 x 6 cm cylindrical blocky fruit. Moderately vigorous plants are highly tolerant to ZYMV, ALS, ANTH, SCAB and intermediate tolerances to DM and PM.

## MAIN SEASON

**146S ROCKINGHAM** 58 days. Produces a continuous set of uniform 8.5 x 2.25 in/22 x 6 cm dark green fruit. High yields of super select slicing cucumbers for shipping or midseason local markets. Fruit are straight, blocky with blunt ends and a good L/D ratio. High tolerance to ALS and Scab. Intermediate tolerance to ANTH, CMV and PM. Gynoecious.

## CUCUMBER DISEASES

**ALS** - Angular Leaf Spot  
**PM** - Powdery Mildew  
**PRSV** - Papaya Ring Spot  
**TLS** - Target Leaf Spot  
**ZYMV** - Zucchini Yellow Mosaic  
**WMV2** - Watermelon Mosaic Virus  
**CMV** - Cucumber Mosaic Virus  
**SCAB** - Scab  
**DM** - Downy Mildew  
**SEMP** - Stemphylium  
**ANTH** - Anthracnose

## LATE GYNOECIOUS HYBRID

**F146D COBRA** 60 days. Extra long 9 x 2.5 in/23 x 5 cm, straight, cylindrical dark green fruit hold their length when other varieties begin to shorten during dry weather. Vigorous vines, excellent for both plastic and open ground cultures. Multi-virus tolerances to CMV, PM, PRSV, ALS, ANTH, WMV2, ZYMV, and Scab. Gynoecious.

**146L DIOMEDE** 60 days. A new gynoecious, multi disease tolerant American slicer that can be grown in open tunnels, on trellises for extended harvests or outdoors in beds. Plants are vigorous, fruit are extra long and slender - 8.5-9 in/20-23 cm in length, very straight and are very dark green in color. Plants have multi-tolerances to PM, DM, ANTH, CMV, PRSV, WMV, ZMV, ALS and SCAB. Gynoecious.



Cobra



Speedway



Darlington



SV4719CS

NEW	HYBRID CUCUMBER		# seeds	Pkt	250	1,000	15 M	60 M	90 M
	(M = 1,000 seeds)		per pkt		seeds	seeds	per M	per M	per M
	F146D	Cobra	30	3.80	10.10	26.05	19.59	18.09	17.06
	146H	Intimidator	50	2.65	6.85	17.62	13.25	12.24	11.54
	146J	Talladega	50	2.85	6.60	17.04	12.81	11.83	11.16
	F146J	Talladega	50	2.85	6.60	17.04	12.81	11.83	11.16
	146L	Diomed	30	2.65	10.15	26.08	19.62	18.12	17.08
	146S	Rockingham	50	2.65	6.15	15.81	11.89	10.98	10.35
	F146S	Rockingham	50	2.65	6.15	15.81	11.89	10.98	10.35
	147A	Darlington	30	2.70	11.15	28.65	21.55	19.91	18.76
	147E	Speedway	50	2.45	6.65	17.04	12.82	11.84	11.16
	147F	Thunder	50	2.45	5.50	14.15	10.65	9.83	9.27
	147L	Stonewall	50	2.45	5.70	14.60	10.98	10.14	9.56
	147M	Cutter	50	2.45	7.35	18.81	14.15	13.07	12.32
	147Q	SV4719CS	N/A	N/A	N/A	N/A	21.02	19.41	17.31
	F147Q	SV4719CS	N/A	N/A	N/A	N/A	21.02	19.41	17.31
	149A	Dasher II	50	2.45	5.00	12.92	9.72	8.98	8.46
	F149A	Dasher II	50	2.45	5.00	12.92	9.72	8.98	8.46



PRINTABLE ORDER FORM



Marketmore 76



Cucumber - Patio Snacker



Bush Pickle



Tasty Green

## SLICING CUCUMBERS

Our most popular open pollinated slicing cucumber with truck farmers is Marketmore 76, a non bitter or burpless slicer. It was developed by our friend Dr. Munger at Cornell University. **BEDDING PLANT GROWERS:** should consider Sweet Slice and Fanfare for retail bedding plant sales.

**CULTURE:** 1.5-2 lbs/1 kg per acre or 1 oz/28 g per 100 hills at 8 seeds per hill. Sow indoors May 1st, .5 in/1.3 cm deep in Jiffy Strips, 3 seeds per pot. Transplant after June 10th. Sow outdoors 2 weeks after your last frost. Thin hills to 4 plants when 6-8 in/15-20 cm high. Space rows 4-5 ft/122 cm-152 cm apart. Minimum soil temp. of 65-70°F/18 -21°C for proper germination. Seed will not germinate in cold ground. Many commercial slicer cucumber growers now use raised beds and plastic mulch to improve yields. **DISEASES:** Please refer to chart for the explanation of our short forms regarding cucumber diseases. "F" prefixed seed contains the class ingredient neonicotinoids.

### OPEN POLLINATED SLICER

**137C MARKETMORE 76** 58 days. A multi-disease tolerant version of Marketmore 70. This new variety was developed by Cornell University and includes tolerance to Scab, Cucumber Mosaic, Powdery and Downy Mildew. Breeders have included the uniform dark green color gene to provide a high percentage of dark green fruit which reduces "yellow bellies" at harvest time. 9 in/23 cm long. Our most popular O/P commercial variety. For untreated seed, order **UT137C**.

### BUSH AND TRAILING HYBRIDS

**FANFARE** is our most popular hybrid slicer for the bedding plant trade. The unique compact semi-bush plant can be used in large gallon or barrel container sales for homegarden use. The variety has a good disease package. The space-saving dwarf plant produces 8-9 in/20-23 cm slicers - perfect for smaller back yards.

**F147G FANFARE** 52 days from transplants. Semi bush F1 hybrid slicer. Dark green 8-9 in/20-23 cm fruit are smooth and have uniform green gene (no yellow bellies) CMV, PM, DM, ALS, ANTH and Scab tolerant. Extra dwarf plant has half the vine of regular slicing cucumbers. AAS Winner. Monoecious.

**UT141F PATIO SNACKER** 60 days. F1 hybrid. Regular 8 in/20 cm slicer produces short 3 ft/90 cm vines - excellent size for short trellised containers. Dark green fruit have good flavor, crunchy texture and non bitter skin. Untreated Seed.



Fanfare

### EXTRA LONG EUROPEAN TYPE

**CULTURE:** This one you can grow indoors or outdoors with some sort of trellis (like grapes). It has both male and female blooms, so you need to remove all male blooms to prevent double pollination by insects or bees outdoors. Sow indoors in pots May 1st. 25 in/7 cm deep at 2 seeds per pot, cover seed and maintain 70°F/21°C until seeds germinate 5 days later, (this species will not sprout in cold soil). Transplant outdoors after June 10th, in the northeast. Train plants to a snow fence or a trellis using well anchored rough, heavy brown twine. Limit the main stem to about 10 ft/3 m. Do not let the long fruit touch the ground.

**144A ENGLISH TELEGRAPH** 63 days. An excellent selection from Rollinson's Telegraph, imported from Europe. Fruits average 15-18 in/38-46 cm in length, are slim, straight and symmetrical. A non bitter cucumber, dark green in color and similar to the hybrids listed on the Greenhouse Vegetable page (pg. 4). This is **NOT** a hybrid.

### HYBRID BURPLESS NON BITTER SLICERS

**CULTURE:** These are slicing cucumbers, (not pickles) that do not have a bitter tasting skin which causes mild indigestion to some people. Fruit are identical to normal slicers but taste is VERY mild and sweet, like long European seedless cucumbers.

**138 SWEET SLICE** 62 days. Sweet tasting slicing cucumber, in the bitter - free and burpless class, but it matures in the popular American shape. Vigorous vines produce good yields over a long season. Dark green cucumbers hold their color well. Fruit are rather long, cylindrical and slightly tapered - averaging 10-12 in/25-30 cm in length and 2.5 in/6 cm in width at full maturity. Taste is amazingly sweet, and should be very popular with people who can not eat ordinary cucumbers. No need to peel the skins before eating. Tolerant to PM, DM, ANTH, ALS and Scab. Monoecious.

### Beit Alpha Type

**NEW 146P PERSEUS** 50 days. Similar in shape to regular cucumbers but much smaller, shorter and thinner. Dark green fruit with very smooth no-peel skin are very sweet, tender, bitter free (burpless) and seedless. Average size 6 x 1 in/16 x 3 cm- harvest smaller pickle size fruit for maximum sweet taste. Plants are gynoecious, parthenocarpic (grows fruit without pollination) and prefer warm weather. Sow in mid June; harvest in July. Adapted for open field summer production or under row covers or poly tunnels in cooler weather. Tolerant to CMV; WMV; PRSV; ZYMV; PM and DM. Better tasting than regular cucumbers.

NEW	CUCUMBER	# seeds per pkt	Pkt	¼ oz 7 g	½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb® per lb.
	137C Marketmore 76	100	2.35			3.30	8.85		22.90	20.90
	141G Bush Pickle	100	4.50		7.30	10.55	32.95		86.00	80.85
	144A English Telegraph	100	4.95	19.00	25.60	39.05	121.95	187.70	318.20	299.15
	<b>HYBRID CUCUMBER</b> (M = 1,000 seeds)	# seeds per pkt	<b>Pkt</b>	<b>250 seeds</b>	<b>1,000 seeds</b>	<b>15 M per M</b>	<b>60 M per M</b>	<b>90 M per M</b>		
	138 Sweet Slice	30	4.25	17.80	46.95	40.76	33.51	31.59		
	UT141F Patio Snacker	30	5.75	19.15	59.96	57.96	52.30	49.30		
	145D Tasty Green	30	2.95	11.20	28.72	24.28	19.95	18.81		
✓	146P Perseus	30	2.70	3.55	8.26	6.98	5.74	5.41		
	F147G Fanfare	30	3.25	15.55	39.99	33.80	27.78	26.19		

## PICKLING CUCUMBERS

**CULTURE:** Start seeds indoors in pots May 1st, .5 in/13 mm deep - in peat pot strips at 3 seeds per pot. Transplant outdoors after June 10th. Do not sow outdoors until 2 weeks after your last frost, and ground temperatures are high enough for proper germination (65-70°F/20°C). For straighter fruit - grow vines on a trellis or fence.

### CONTAINERS OR BEDDING PLANTS

**141G BUSH PICKLE** 45 days. Replaces Patio Pick as our best bush type for container cultures, confined growing areas or miniature gardens. Plant averages 2.5 ft/76 cm across, half the size of the standard vining types. Medium green, white spined fruit average 4-5 in/10-12 cm in length, 2.9 L/D ratio, slightly tapered shape, tolerant to Scab and CMV.

### BURPLESS OR NON BITTER BREAD & BUTTER PICKLES

**CULTURE:** Must be harvested young (12 in/30 cm) To keep burpless/ non bitter types straight, use snow fence or trellis, secure enough to support the weight of the vines and fruit as they mature.

**145D TASTY GREEN** 58 days. F1 hybrid. Extra early, heavy yielding burpless type that can be grown in the greenhouse (with bees to pollinate) or outdoors. Sakata's most popular outdoor burpless cucumber. Dark green fruit average 9 in/23 cm long and 1.5 in/3.8 cm wide. Tolerant to PM and DM. Monoecious.

## CUCUMBER DISEASES

**ALS** - Angular Leaf Spot  
**PM** - Powdery Mildew  
**PRSV** - Papaya Ring Spot  
**TLS** - Target Leaf Spot  
**ZYMV** - Zucchini Yellow Mosaic  
**WMV2** - Watermelon Mosaic Virus  
**CMV** - Cucumber Mosaic Virus

**SCAB** - Scab  
**DM** - Downy Mildew  
**SEMP** - Stemphylium  
**ANTH** - Anthracnose



Stokes Seeds Cucumber Trials





Eureka



Fancipak



Zapata



Jackson Classic

## HYBRID CUCUMBER - PICKLING VARIETIES

With the introduction of the new "true bush" pickle, Jackson Classic, commercial growers can now consider raised bed culture and a much higher plant density per acre than the normal vined types or semi bush types like Cross Country. Most pickle factories use white spined types that stay green/white in the mature stage and are darker green in the gherkin stage. Black spined types like Pioneer and the open pollinated types turn yellow as they mature and are still used for fresh market. (Classic) = F1 hybrid male. CULTURE: Seed size varies 15M-26M seeds per lb. HAND HARVEST: Space rows 4-5 ft apart, plant in hills of 2 to 4 seeds per hill and space 8 in/20 cm apart for high density yields (or hills 2 ft/61 cm apart for regular sowings). MACHINE HARVEST: Sow on raised beds at 3 rows per bed, 24 in/60 cm apart, and 2 in/5 cm apart in the rows. Higher fertilizer rates must be used for dense sowings to reduce misshapened fruit. SOW indoors in peat pots in short season areas May 1st. DIRECT SEED outdoors into warm soil June 10th-July 15th in northeast. Use 2½-5 lbs/1-2 kilos per acre. Smaller growers can use wider spacing (2 ft/61 cm apart) at 4 seeds per hill. 1 oz/28 g per 100 ft/31 m of row. TOTAL HYBRIDS: As monoecious F1 hybrids with multi disease tolerances are developed, our suppliers are starting to use monoecious hybrids as a source of male pollen (instead of O/P varieties) for their gynoecious all female hybrids. This provides increased yields and wider disease tolerances plus a more uniform grade of pickles. Look for the word "Classic", these are Gynoecious x Monoecious hybrids. "F" prefixed seed contains the class ingredient neonicotinoids.

### EARLY VINE TYPES

**F146Q SUPREMO** 45 days. Plant is very vigorous and may be grown on short stakes or as a row crop type with more space between plants. Dark green blocky fruit have a shape similar to Zapata with a L/D ratio of 3:1, thick skin and a small seed cavity. Size averages 3-4 in/7-10 cm in length. Tolerant to ALS, PM, DM, ZYMV, PRSV, CMV, ANTH and SCAB. Monoecious.

**145B CROSS COUNTRY** 51 days. Semi-bush type allows denser plantings resulting in much higher yields than standard types. Some growers report 250-325 bushels per acre. L/D ratio provides 3.0 to 3.2 extra long fruit with outstanding dark green color which carries through the fruit from end to end. Interior quality is exceptionally high in Northeastern regions. Tolerant to SCAB, ANTH, CMV, ALS, PM and DM. Hand or machine harvest. Gynoecious.

**141L LAFAYETTE** (Classic) 52 days. Indeterminate plant, heavy yields, widely adapted to many pickle producing areas in northeast New Jersey, Ontario or Michigan. Excellent machine harvest type. Tolerant to CMV; ANTH; PM; DM and SCAB. Gynoecious x Monoecious hybrid.

**F146G FANCIKAK** 53 days. One of the Northeastern areas' most popular hand harvested main season pickles. Outstanding uniformity, beautiful medium dark, blocky fruit with a 3.04 ratio. Medium-large plant with dense foliage. Tolerant to CMV, ANTH, ALS, DM, PM and Scab. Gynoecious.

**141S SASSY** 53 days. Uniform cylindrical, dark green fruit with extra length - L/D ratio 3.0 to 3.1. Fruit are slightly tapered and have excellent interiors. High yielding plants. Good tolerances to CMV, ALS, ANTH and SCAB. Moderate tolerances to PM and DM. Gynoecious. HMX 9465.

### EARLY BUSH TYPE

**141J JACKSON CLASSIC** 52 days. An early bush sister line of Bush Baby, Alexander and Napoleon. Small 20 in/51 cm vine with CMV, ANTH, ALS, DM, PM and Scab tolerances. Dark green blocky fruit. Can produce 2 fruit at each node. L/D ratio of 2.90 to 3.0. Gynoecious x Monoecious hybrid.

### MAIN SEASON VARIETIES

**146E ECLIPSE** 53 days. Tried with growers as HMX 3469. A medium dark green, blocky pickle with a slight taper and L/D ratio of 2.9 to 3.1. Fruit set well for machine harvest and extended hand harvest. Comparable to Eureka and Napoleon Classic. Tolerant to ANTH; ALS; CMV; PM; DM and SCAB. Gynoecious x Monoecious hybrid.

**147K ZAPATA** 56 days. Cylindrical dark green fruit with an LD ratio of 3.0 to 3.1 and excellent uniformity. Tolerant to CMV, ANTH, ALS, PM, DM, WMV, ZYMV, PRSV and SCAB. Monoecious hybrid.

**146C EUREKA** 56 days. Monoecious, multivirulent tolerant hybrid. Very dark green, white spine, late pickle with L/D ratio of 3:15. Fruit have small seed cavity and strong indeterminate plants. Tolerant to CMV; ALS; DM; PM; ANTH; WMV; PRSV; ZYMV and SCAB. For untreated seed, order **UT146C**.

### BLACK SPINE PICKLES

Pioneer is our only black spine hybrid pickle. Fruit will turn from green to golden yellow as it over matures, just like Boston market types, Wisconsin SMR 58.

**141 PIONEER** 51 days. F1 Hybrid. More uniform. Bears heavy yields of pickles on medium-sized vines. Widely adapted, it has a high tolerance to SCAB, CMV, DM, and some tolerance to PM, ANTH and ALS. Gynoecious

**146B WISCONSIN SMR 58** 65 days. O/P. Darker than S.M.R.18, but similar in shape and size. SCAB, Black Spot and Mosaic tolerant. Black spine.

### PARTHENOCARPIC PICKLES

Parthenocarpic pickles provide some very distinct advantages to pickle growers – they produce mature pickles without seeds and do not require pollination from bees or insects in the field and do not need pollination from male flowers on the same or neighbouring plants. They will also set pickles during poor weather. Regular pickles will not set during hot, cool or rainy periods when extreme temperatures destroy regular pollen or bees are prevented from flying. Parthenocarpic pickles will hold longer on the vine before they get too large, which allows for larger once over harvests rather than multi harvests during the week. Growers can expect to harvest these new types for a period of 6-8 weeks, which should provide higher total yields per acre than regular types. These types MUST be isolated from other normal pickles or slicers which produce their own male pollen and cause damaging cross-pollination. Until recently, most parthenocarpic types did not look like North American pickles – they had much smoother skin. NOTE: The variety listed below has two advantages over previous parthenocarpic types. (a) It does not become rough and ugly during extreme heat and (b) It resembles North American types with a more similar exterior skin during harvest period.

**141P PUCCINI** 53 days. Parthenocarpic type hybrid with North American spines and appearance. Medium length vines. Excellent fruit quality for salt fermentation. Uniform L/D ratio of 3.0 to 1. Suitable skin texture for mechanical harvesting and shipping. Good extreme heat tolerance. Tolerant to ANTH and SCAB with intermediate tolerance to ALS and CMV. MUST be isolated from other regular cucumbers or pickles. White spine.

### CUCUMBER DISEASES

**ALS** - Angular Leaf Spot  
**PM** - Powdery Mildew  
**PRSV** - Papaya Ring Spot  
**TLS** - Target Leaf Spot  
**ZYMV** - Zucchini Yellow Mosaic  
**WMV2** - Watermelon Mosaic Virus  
**CMV** - Cucumber Mosaic Virus

**SCAB** - Scab  
**DM** - Downy Mildew  
**SEMP** - Stemphylium  
**ANTH** - Anthracnose

NEW	HYBRID PICKLING CUCUMBERS (M = 1,000 seeds)	# seeds per pkt	Pkt	500 seeds	1,000 seeds	15 M per M	60 M per M	90 M per M
	141J Jackson Classic	50	2.45	7.05	9.67	5.54	5.11	4.82
	141L Lafayette	50	2.70	7.50	10.34	5.92	5.47	5.15
	F141L Lafayette	50	2.70	7.50	10.34	5.92	5.47	5.15
	141P Puccini	50	3.75	27.35	37.60	21.52	19.87	18.74
	F141P Puccini	50	3.75	27.35	37.60	21.52	19.87	18.74
	141S Sassy	50	2.45	6.60	9.06	5.18	4.79	4.51
	145B Cross Country	50	2.45	6.20	8.50	4.87	4.49	4.24
	146C Eureka	50	3.00	18.35	25.22	14.43	13.33	12.57
	F146C Eureka	50	3.00	18.35	25.22	14.43	13.33	12.57
	146E Eclipse	50	2.45	6.15	8.44	4.83	4.46	4.21
	F146G Fancipak	50	2.45	6.55	8.99	5.14	4.75	4.48
✓	F146Q Supremo	30	4.35	18.40	25.30	14.48	13.37	12.61
	147K Zapata	30	2.45	8.60	13.62	10.24	9.46	8.92
	<b>HYBRID PICKLING CUCUMBERS</b>	<b># seeds per pkt</b>	<b>Pkt</b>	<b>oz</b>	<b>¼ lb</b>	<b>½ lb</b>	<b>1 lb</b>	<b>5 lb @ per lb</b>
	141 Pioneer	50	2.45	3.95	9.65	12.80	25.10	23.60
	<b>OPEN POLLINATED PICKLING CUCUMBERS</b>	<b># seeds per pkt</b>	<b>Pkt</b>	<b>oz</b>	<b>¼ lb</b>	<b>½ lb</b>	<b>1 lb</b>	<b>5 lb @ per lb</b>
	146B Wisconsin SMR 58	50	2.45	5.55	10.05	14.80	26.05	22.40



Pioneer



Puccini





Arugula - Astro



Basil - Nufar YR



Borage



Dwarf Basil - Eowyn



Chamomile

## STOKES HERBS AND GREENS

**155 ANISE** *Pimpinella anisum*. 75 days. Annual. Use leaves in salads, seeds in cakes/bread. Grows 1.5 ft/46 cm. Smells the sweetest. 7,000 seeds per oz/28 g.

**164F ARUGULA ASTRO** Strap Leaf Strain. Hardy Annual. 31-52 days depending on use (*Eruca vesicaria sativa*). Clip small 6 in/15 cm slim leaf tips early to blend with lettuces for Mesclun mixes. Harvest and bunch mature 12 in/30 cm strap shaped leaves and small 1 in/2.5 cm flowers to add peppery flavor to salads. 22,000 seeds per oz/28 g.

**164D ARUGULA ROQUETTE** *E. vesicaria*. Approx. 40 days. Hardy Annual. Dark green wide tongue shaped leaves are used in salads and have strong spicy taste. Sown in late August, plants winter over for spring harvest. 15,000 seeds per oz/28 g.

**164H ARUGULA SELVATICA** *E. selvatica*. 40 days. Annual. Wild type with dark serrated leaves. Shelf life after harvest is very long. Pungent flavor. Favorite of both chefs and growers. Grow like Roquette. 90,000 seeds per oz/28 g. Pkt (500 seeds) \$2.45; 10,000 seeds \$0.62 per M; 50,000 seeds \$0.53 per M; 100,000 seeds \$0.47 per M; 1,000,000 seeds \$0.44 per M.

**160A CHERVIL** *Anthriscus cerefolium*. 80 days. Annual or perennial. Parsley-like flavor for soups. 15,000 seeds per oz/28 g. Aromatic leaves, 2 ft/60 cm.

**914 BEE BALM** *Monarda Panorama Mix*. Perennial. Fragrant red, pink, and salmon flowers have mint smell and attract humming birds and butterflies. Blooms July/Aug. Sow indoors Feb. 15th or outdoors in spring or fall. 56,000 seeds per oz/28 g. Pkt (25 seeds) \$2.35; 250 seeds \$7.90; 1,000 seeds & over \$13.45 per M.

**164A LEMON BALM** *Melissa officinalis*. Perennial. Maintains dwarf 12 in/30 cm habit indoors in pots, will grow 24 in/60 cm outdoors. Heart shaped leaves, lemon fragrance. Attracts bees. Tea made from dry leaves really calms your nerves and stimulates the heart. 43,000 seeds per oz/28 g.

**165 BORAGE** *Borago officinalis*. 80 days. Hardy Annual. Vigorous 20 in/51 cm plant. Great for salads, use to flavor lemonade. Bees love it. 1,200 seeds per oz/28 g.

**156 CARAWAY** *Carum carvi*. 70 days. Biennial. Roots are eaten as a vegetable, leaves and shoots in salads, seeds for seasoning. 20 in/51 cm plant. Best sown in late summer to yield fresh seed next season. 12,000 seeds per oz/28 g.

**155B CATNIP** *N. cataria*. 75 days. Perennial. A vigorous mint. Used for cat toys. Germinates 7-10 days. Restrict light until seeds sprout. Plants mature 2 ft/60 cm. 48,000 seeds per oz/28 g.

**155G CATNIP PINK CAT** *N. nervosa*. Ornamental Perennial Catnip. Large pink flower spikes on compact mounded plants. Winter hardy, heat tolerant. Novelty for 10 in/25 cm pots. Croptime 14 weeks. Pkt (25 seeds) \$4.55; 250 seeds \$10.15; 500 seeds \$14.15; 1,000 seeds & over \$22.42 per M.

**155D CHAMOMILE** *Matricaria chamomilla*. 80 days. Annual. Apple scented German strain. A spreading plant that likes sun. Combat stress with relaxing tea. 12 in/30 cm. 270,000 seeds per oz/28 g.

**163B CORIANDER SANTO** Cilantro. *Coriandrum sativum*. 45 days. Annual. Standard northeastern, slow bolting, fast growing strain used by large commercial growers. Grown for aromatic seeds and for seasoning meats, pickles, etc. Deep green leaves, bushy 16 in/40 cm plant. 1,900 seeds per oz/28 g.

**163F CORIANDER SANTO** Mono Germ Cilantro. 45 days. Annual. Same as above, but large seed shells have had hulls removed (2 seeds per hull) to provide single seeds. Approx. 4000 seeds per oz/28 g.

**163D CORIANDER LEISURE** Cilantro. 47 days. Annual. Extra slow bolting strain used during hot weather or in southern or northeastern areas. Similar to Santo in appearance. 2,000 seeds per oz/28 g.

**157 CHIVES** *A.schoenoprasum*. 80 days. Perennial. Small 6 in./15 cm plant, grown in pots or rows. Finely chop tops for flavoring food. Sow fresh seed at 4 lbs/2 kg per acre. 24,000 seeds per oz/28 g.

**157B GARLIC CHIVES** *Allium tuberosum*. 85 days. Perennial. Flat bladed, chive-like herb with an assertive garlic flavor. Referred to as "Chinese Chives". Replaces garlic in sauces and salads. Compact 12 in/30 cm plant also provides beautiful, long lasting, flowers.

**155A DANDELION** *Taraxacum officinale*. 95 days. Hardy annual. Dark green leaves used for "Boiling greens". Improve flavor of hearts by blanching. 35,000 seeds per oz/28 g.

**158 DILL DUKAT** *A. graveolens*. 70 days. Annual. Tetra strain for processing with high yields, larger umbels, taller 30 in/76 cm plant than Bouquet. Use leaves for soups - stalks and seeds for pickles. Sow 5 lbs/2.3 kg per acre; 20,000 seeds per oz/28 g.

**158C DILL BOUQUET** *A. graveolens*. 65 days. Annual. Standard strain developed from Mammoth. Used for bedding plant trade and roadside stands.

**N158C DILL BOUQUET** *A. graveolens*. 65 days. Organically grown seed for use by Organic Growers. Dark green plants are very fragrant. Used in pickles, salad dressings and soups. 12,000 seeds per oz/28 g.



Garlic Chives



Dill Dukat

### Tall Varieties

**159E CINNAMON BASIL** *O.basilicum*. 80 days. Popular annual in herbal tea. Violet stems and prominent veins and flower bracts, lavender flowers, small 1 in/2.5 cm green leaves. Tall 28 in/71 cm plants. 22,800 seeds per oz/28 g.

**159H DI GENOVA BASIL** *O.basilicum di serenti* 85 days. Imported from Sicily. Large 4 in/10 cm savoyed leaves are dark green. Special Pesto strain, 24 in/60 cm plant, 0/1000 fusarium certified seed. Great taste and smell. 18,000 seeds per oz/28 g.

**159D GENOVESE BASIL** *O.basilicum*. 88 days. Annual. 2 in/5 cm dark green, savoyed leaves. Uniform, tall 24 in/60 cm plants. Heavy, spicy taste and smell - used for Pesto sauces. 16,000 seeds per oz/28 g.

**163A LEMON BASIL** *Ocimum basilicum citriodorum*. 80 days. Annual. Small pointed leaves with distinct lemon flavor. 18 in/45 cm compact plant. 16,000 seeds per oz/28 g.

**159B LETTUCE LEAF BASIL** *O.basilicum Crispum*. 85 days. Annual. Imported from Italy. Large serrated or deeply cut leaves are slightly larger than our regular strain. Licorice flavor and fragrance. 16 in/40 cm. 16,000 seeds per oz/28 g.

**159J NUFAR BASIL** *O.basilicum*. F1 hybrid. 80 days. Annual. Fusarium tolerant. Large slightly savoyed 4 in/10 cm leaves on 24 in/60 cm plants. Sweet scent and flavor. For Pesto. 18,000 seeds per oz/28gr. (0/1000 Fusarium certified seed) Organically grown seed.

**700 PURPLE RUFFLES BASIL** *O.basilicum Crispum*. 80 days. Annual. Bushy 24 in/60 cm dark purple lettuce leaf Basil for containers or salads.

**159 SWEET BASIL** *O.basilicum*. 85 days. Large leaf. Annual. Use fresh or dried leaves. 1.5 ft/46 cm plant. 16,000 seeds per oz/28 g. Fully mature leaves have a sweeter milder taste and smell.

### BASIL

### Dwarf Varieties

**159V EOWYN** *O. basilicum*. 70 days. Annual. Dwarf, compact type with bright, dark green leaves and short internodes. Great summer shelf life.

**159W GENOVESER** *O.basilicum*. 70 days. Very compact 12 in/30 cm bunching and pot type. Medium leaves have very intense flavor. Extended shelf life.

**159F MARSEILLAIS DWARF BASIL** *O.basilicum*. 70 days. Beautiful dwarf, bushy 12 in/30 cm plants with medium size 1.5 in/4 cm plain VERY aromatic leaves. Hundreds of tasty leaves. Perfect for 10 in/25 cm pots. Best for bedding plant use. (20,000 per oz/28 g)

**NEW 159P PLENTY** *O.basilicum*. 70 days. A spoon shaped Genovese, dark green leaf, 14 in/35 cm - bushy, strong, compact plant with intense aromatic leaves. Use during spring/fall in high tunnels or for open field production. Excellent shelf life after cutting. Also use as a 10 in/25 cm pot plant for spring sales.

**159K MARTINA GENOVESE BASIL** *O.basilicum*. 70 days. Dwarf 14 in/35 cm bushy Genovese type leaf with very intense aromatic flavor - for 10 in/25 cm pots. Long shelf life. Grow year round in greenhouse.

**700B RED RUBIN BASIL** *O.basilicum*. 80 days. Annual. Improved Dark Opal, plain edged leaves are dark red. (15 in/38 cm) Ornamental.

**159C SPICY GLOBE DWARF BASIL** *Ocimum basilicum* minimum. 70 days. Annual. The most popular mini leaf basil for 4 in/10 cm pots. (10 weeks from sowing to sale). Maintains it's compact growth forming tiny 6 in/15 cm mounded plants. Heavy basil flavor. 26,000 seeds per oz/28g.

**159L THAI BASIL** *O.basilicum*. 70 days. Annual. 15 in/38 cm. Strong licorice taste. Small leaves, purple stems, strong clove scent.





Florence Fennel



Stevia



Oregano



Lavender

**158D DILL DIANA** *A. graveolens*. 70 days. Annual. Very upright, stable selection. Dark green, very leafy compact plants are tolerant to bolting.

**158B DWARF DILL FERNLEAF** *A. graveolens*. 68 days. Annual. 18 in/46 cm. Dwarf, dark green fine leaved, base branching dill for bedding plant growers. Performs well in 8 in/20 cm pots.

**158A OREGANO** *O. heracleoticum* - Greek Strain. 90 days. Perennial. Hardy 2.5 ft/76 cm plant. Trim to encourage new growth. Smaller leaf and more pungent flavor than other strains. Leaves used fresh or dried in sauces or soups. 195,000 seeds per oz/28 g.

**156A ROSEMARY** *R. officinalis*. 85 days. Perennial. Bushy 2 ft/60 cm plant. Use needle- like leaf tips sparingly to flavor meats and sauces.

**160 FLORENCE FENNEL** *Finocchio - F. vulgare azoricum* 90 days. Annual. Large bulb at the base of the plant is used in salads or cooked as a vegetable. Anise-like flavor. 2.5 ft/76 cm plant. Similar to sweet fennel in taste. Sow oz./28 g per 100 ft/31 m. 8,200 seeds per oz/28 g.

**160C CRISTAL FENNEL** *F. vulgare azoricum*. 100 days from seeding. Annual medium erect plant, dark green foliage, round crispy white head (1.5 lb/600 grams). Tolerance to breakage during shipping.

**159R FENUGREEK** *Trigonella foenum - graecum*. 70 days. Common ingredient in curry powder, oriental sauces, soups, stews, preserving and imitation maple, butterscotch and caramel flavors. Clover-like plant with creamy yellow flowers. 2,100 seeds per oz/28 g.

**NOTE: For bedding plant Lavenders see page 95 in our flower seed section for descriptions and prices.**

**165B LAVENDER** *Lavandula officinalis*. 90 days. Perennial. Dwarf Munstead strain 12 in/30 cm bushy plant, lavender blue spikes should be cut just before blooms are fully open. Used as a fresh fragrant cut flower or dried to provide sweetly perfumed sachets. 25,000 seeds per oz/28 g.

**164B RUE** *Ruta graveolens*. 80 days. Perennial, hardy evergreen. Use fresh or dried. Used as an herbal medicine for sore throats, headaches, an ointment for joint pains. An antidote for poisons. 24 in/60 cm.

**161 SAGE** *Salvia officinalis*. 75 days. Hardy annual. Bush 18 in/45 cm. Fragrant greyish leaves are used fresh or dried to flavor meats, dressings, sauces, etc. 3,200 seeds per oz/28 g.

**160D STEVIA** *Stevia rebaudiana*. Popular sweet herb used as an alternative to sugar. Can be used fresh or dried. Attractive bushy, high yielding plants. Pkt (25 seeds) \$5.85; 250 seeds \$47.40; 1,000 seeds \$114.29; 10,000 seeds & over \$91.03 per M.

**164E SORREL** *Rumex acetosa*. 60 days. Perennial. The lemon flavored, 8 in/20 cm, sword shaped leaves are harvested young. Use in soups and sauces. Sow May 1st. 34,000 seeds per oz/28 g.

**157A SPEARMINT** *M. spicata*. 80 days. Perennial. This upright 22 in/56 cm plant likes moist peat soils. Plant used for oil; young leaves for jellies and drinks.

**162 SUMMER SAVORY** *S. hortensius*. 60 days. Annual. 12 in/30 cm. Use fragrant leaves fresh or dried for flavoring. 40,000 seeds per oz/28 g.

**164 THYME** *T. vulgaris*. 85 days. Perennial dwarf 12 in/30 cm. A honey plant for bees. Aromatic foliage used for flavoring. Used as a ground cover in dry areas. 80,000 seeds per oz/28 g.

**164C CREEPING THYME** *Thymus serpyllum*. 80 days. Perennial. Extra dwarf 3-5 in/7-13 cm. Small dark green leaves form dense mats of aromatic foliage, purple flowers. Used in rockeries, pathways, ground cover, or as a spice for cooking. 114,000 seeds per oz/28 g.

NEW	HERBS	# seeds per pkt	Pkt	1/16 oz 2 g	1/4 oz 7 g	1/2 oz 14 g	oz 28 g	1/4 lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb
	155 Anise	200	2.45				5.65	15.70	30.50		
	164F Arugula Astro	500	2.45				6.20	13.45	32.85	31.65	25.61
	164D Arugula Roquette	500	2.45				3.95	7.35	17.90	17.30	13.98
	164A Lemon Balm	70	2.45		6.75	7.95	12.70	40.95	122.60		
	165 Borage	75	2.45				4.95	13.95	47.45	38.35	30.32
	156 Caraway	200	2.45				4.45	11.90	30.60	24.20	
	155B Catnip	80	2.45			3.95	5.55	17.05	49.25	42.65	
	155D Chamomile	600	2.45			7.45	10.80	36.65	124.75	102.10	87.57
	160A Chervil	200	2.45				6.15	11.45	32.65		
	157 Chives	300	2.45			9.40	12.25	35.00	100.70	80.80	50.77
	157B Garlic Chives	100	2.45			8.80	11.50	31.15	99.75		
	163D Coriander Leisure	250	2.15				3.25	5.25	11.85	10.15	8.73
	163B Coriander Santo	250	2.15				3.95	7.20	16.30	13.90	10.78
	163F Coriander Santo	250	2.15				3.95	7.20	16.30	13.90	11.98
	155A Dandelion	500	2.95			17.85	27.40	80.35	243.50	220.90	
	158 Dill Duket	300	2.15				4.15	10.10	22.40	20.20	18.12
	158C Dill Bouquet	200	2.15				3.75	9.20	20.45	18.45	16.52
	N158C Dill Bouquet (Organic)	200	3.00				18.35	31.25	74.35	66.50	56.78
	158D Dill Diana	200	2.15				3.25	6.60	14.60	13.20	11.81
	158B Fernleaf Dill	200	3.00		16.05	23.95	40.20	123.80	317.70	310.25	285.93
	160 Florence Fennel	200	2.45				6.95	14.10	37.55	33.90	
	160C Cristal Fennel	100	4.25				19.10	40.45	101.50	89.90	
	159R Fenugreek	100	2.70				3.60	7.35	26.05	21.10	
	165B Lavender	100	2.45	12.30	39.05		98.40	393.60	1574.40		
	158A Oregano	190	3.00	8.55	18.65		53.35	150.45	442.85		
	156A Rosemary	150	3.75	11.70	37.70		105.10	336.25			
	164B Rue	200	2.70		8.85	12.05	17.65	55.30			
	161 Sage	40	2.70			8.60	11.85	35.40	121.45		96.71
	164E Sorrel	300	2.70			4.15	5.25	13.60	46.35		
	157A Spearmint	250	2.70	6.45	17.50	28.05	47.65	156.40	498.10		
	162 Summer Savory	300	2.70				5.35	12.95	37.00	33.90	25.10
	164 Thyme	300	2.70		13.40	21.40	30.55	92.65	257.25		
	164C Creeping Thyme	300	3.20		18.05	27.25	44.05	151.90			
	BASIL	# seeds per pkt	Pkt	1/16 oz 2 g	1/4 oz 7 g	1/2 oz 14 g	oz 28 g	1/4 lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb
	159E Cinnamon Basil	100	2.45			5.00	8.65	23.65	65.10		
	159H Di Genova Basil	100	2.45				4.15	10.65	29.25	27.80	
	159D Genovese Basil	250	2.15				2.55	4.95	18.00	14.65	
	163A Lemon Basil	250	2.45			5.35	8.05	22.80	61.60		
	159B Lettuce Leaf Basil	250	2.15			3.35	5.25	14.35	39.45	38.10	
	159J Nufar YR F1 Basil (Org)	250	2.45		6.05	11.40	17.00	57.20	157.10	133.45	
	700 Purple Ruffles Basil	100	2.45		20.90	36.95	57.65	230.60	922.40		
	159 Sweet Basil	250	2.15				3.50	7.60	20.90	18.75	
	DWARF BASIL										
✓	159P Plenty Basil	100	2.45				6.45	18.55	53.55		
	159V Eowyn Basil	100	2.45				8.65	18.70	51.35	46.10	
	159W Genovesr Basil	250	2.45				5.00	14.45	39.75		
	159F Marseillais Basil	100	2.45		19.40		51.90	173.05	599.85		
	159K Martina Genovese Basil	250	2.45			5.95	8.15	32.60	70.85		
	700B Red Rubin Basil	100	2.45		9.25		24.20	80.95	323.80		
	159C Spicy Globe Basil	100	2.45		6.35		16.20	61.30	245.20		
	159L Thai Basil	100	2.45			4.95	7.95	21.70	59.65		



Basil - Plenty





Black Bell II



Bride



Shoya Long



White Star



Italian Pink Bicolor

## EGGPLANT

**CULTURE:** Seed produces about 2,500 plants per oz/28 g; Packets contain various amounts - see price box. Sow seed indoors from March 1st through April 1st, .25 in/6 mm deep and keep very warm. Use lots of bottom heat if possible. Heating cables, mats or heat lamps are great for this purpose. Soil temperature should average 85°F/29°C. Seed germinates in 5-10 days. Grow seedlings at 70-75°F/21-24°C. Transplant into deep cell plastic trays or 3 in/8 cm pots when true leaves are about .375 in/10 mm in diameter. Minimum greenhouse temperature of 65°F/18°C. Reduce moisture to harden-off. Set plants outdoors after danger of cool nights (45°F/7°C) is past, 24 in/60 cm apart, in rows 3 ft/91 cm apart. Dates to maturity are from transplanting outdoors. **HARVEST:** For best taste always pick young fruit. Stake Japanese types.

### LONG SLIM JAPANESE TYPES

**423A MILLIONAIRE** 55 days. F1 hybrid. Black, slim 10 in/25 cm tender fruit are 2 in/5 cm wide with a purple calyx.

**423B BRIDE** 58 days. F1 hybrid. Rose, light rose/white stripes and pure white with green calyx. Slim 8 in/20 cm fruit.

**150T SHOYA LONG** 60 days. F1 hybrid. Long 10-13 in/25-35 cm purplish-black fruit with a purple calyx. High percentage of first grade, very fine quality fruit. Vigorous, upright plants produce a large quantity of fruit.

**150R HANSEL** 55 days. F1 hybrid. Clusters of short 4 in/10 cm, sweet dark purple fruit. AAS Winner.

**NEW 152P PURPLE FINGERS** 65 days. Classic miniature slim Italian long purple eggplant with a green calyx. Bitter free white flesh is firm and delicious. Harvest 4 in/10 cm young sweet fruit, discard large over ripe fruit. O/P

### OVAL, LARGE & TEARDROP BELLS

**151J BLACK BELL II** 58 days. F1 hybrid. Best medium sized black oval-round shaped variety for Italian growers. Compact plants are tolerant to TMV.

**150B EPIC** 61 days. F1 hybrid. One of our best larger oval fruited types. Fruit average 9 in/23 cm in length, 3.5 in/9 cm wide. Skin is deep purple. TMV tolerant.

**150P NADIA** 70 days. F1 hybrid. Long oval dark glossy purple-black fruit. Very firm 4.5 x 9 in/11 x 23 cm fruit are uniform in shape with excellent shelf life. Plants are vigorous high yielders and hold the fruit off the ground. TMV tolerant.

**150D NIGHT SHADOW** 75 days. F1 hybrid. Large teardrop black in color with a reduced blossom end scar. Fruit remain very firm at maturity. Similar to Epic in size.

### ITALIAN HALF LONG

**150L CAPPI** 60 days. F1 hybrid. Young half long teardrop shaped fruit mature to a tapered cylindrical shape. Firm, high yields with spineless green calyx.

**150G MEGAL** 60 days. F1 hybrid. Long tapered Italian type with green calyx. Fruit are purple/black, 7-9 in/19 cm long, 3 in/7.5 cm diameter TMV tolerant.

**NEW 152W WHITE STAR** 55 days. F1 hybrid. Classic teardrop shape. Glossy white 4-5 in/10-11 cm baby fruit are delicious young. Upright plants provide good leaf coverage. Replaces White Cloud.

**152E ITALIAN PINK BICOLOR** 75 days. Large O/P oval cream/rose 8 in/20 cm fruit mature rose pink.

**151H BLACK BEAUTY** 80 days. Standard egg shaped, dark purple O/P for bedding plant sales.



Night Shadow



Megal



Purple Fingers



Millionaire

## ESCAROLE AND ENDIVE

**CULTURE:** Pkt sows about 20 ft/6 m of row; oz/28 g sows 100 ft/31 m; 2 lbs/kg per acre. Sow outdoors Apr.15th, .25 in/6 mm deep (2 seeds per in/25 mm) in rows 18 in/46 cm apart. Thin to 10-12 in/25-30 cm apart. Sow fall crops June 30th. Tie outer leaves up, to blanch centers.

**154 FULL HEART BATAVIAN ESCAROLE** 85 days. A special escarole strain NR65. Upright, broad, smooth, dark green leaves with less basal rot. Creamy yellow centers. Compact 12 in/30 cm plants. Pkt. (500 seeds) \$2.45; 1,000 seeds \$3.55; 5,000 seeds @ \$1.47 per M; 25,000 seeds @ \$1.18 per M; 100,000 seeds @ \$1.14/M.

**P154 FULL HEART NR65 ESCAROLE** 85 days. 10,000 seeds @ \$1.92 per M; 50,000 seeds @ \$1.64 per M; 100,000 seeds @ \$1.45 per M.

**P154A SALAD KING R.S. ENDIVE** 95 days. Pkt. (250 seeds) \$3.20; 1,000 seeds @ \$5.92; 10,000 seeds @ \$1.92 per M; 50,000 seeds @ \$1.64 per M; 100,000 seeds @ \$1.45 per M. Pellets only.



Escarole - Full Heart Batavian

NEW	EGGPLANT	# seeds per pkt	Pkt						
				1/2 oz 14 g	oz 28 g	1/4 lb 113 g	1/2 lb 227 g	lb 454 g	
	151H Black Beauty	75	2.70		5.35	13.45	20.75	38.80	
	152E Italian Pink Bicolor	75	2.70	5.05	8.60	25.05		72.30	
✓	152P Purple Fingers	50	3.75	12.35	21.05	61.20		176.75	
	HYBRID EGGPLANT	# seeds per pkt	Pkt	1/4 oz 7 g	1/2 oz 14 g	oz 28 g	1/4 lb 113 g	1/2 lb 227 g	Lb 454 g
	150T Shoya Long	50	3.95		44.60	75.90	220.85		
✓	152W White Star	50	4.75		33.70	57.35	166.85		482.05
	423A Millionaire	50	3.75	34.50	44.60	75.90	220.85	638.05	
	423B Bride	50	3.20	13.80	17.85	30.40	88.45	255.50	
	HYBRID EGGPLANT M=1,000 seeds	# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	150B Epic	50	2.70		13.75	18.66	16.01	11.74	9.58
	150D Night Shadow	50	2.70		15.90	22.24	19.08	13.99	11.42
	150G Megal	10	3.75	9.75	24.65	38.26	32.81	24.07	19.64
	150L Cappi	10	4.25	12.95	33.30	49.65	42.58	31.23	25.48
	150P Nadia	50	2.70		20.55	31.89	27.35	20.06	16.36
	150R Hansel	10	3.75	28.40	71.70	111.33	95.48	70.04	57.14
	151J Black Bell II	10	3.75		93.75	137.83	124.82	91.57	74.70





Blue Ridge



Winner



Clemson Spineless 80



Tadorna



Harvesting Hybrid Leek

## KALE

**CULTURE:** oz/28 gr 9,000 seeds. Sow in early spring or June to July. Thin 12 in/30 cm apart. Screened for Black Rot & Black Leg. SIZED SEED. For Ornamental Kale see page 67.

**168C BLUE RIDGE** 52 days. F1 hybrid. Dark blue/green fully curled leaves are easy to strip, slow to bolt. Good tolerance to heat. For machine harvesting. Pkt. (100 seeds) \$3.50. Limited to Pkt.

**168E WINTERBOR** 52 days. F1 hybrid. Taller 24 in/60 cm stems allow easier stripping. Dark green finely curled Vates with frost tolerance for spring, fall or overwintering. **Crop Failure.**

## OPEN POLLINATED

**168F BLACK MAGIC** 55 days. A British bred variety developed from Cavolo Nero, which has a much better uniformity and plant habit. Black Magic has dark black/green heavily savoyed, narrow, well textured 16 in/40 cm leaves with white ribs. A rosette plant habit makes harvesting easier. Plants have an improved bolting resistance and an excellent tolerance to cold weather.

**168A VATES BLUE CURLED** 56 days. Standard blue/green curled. 14 in/36 cm plant. For untreated seed, order **UT168A**.

## KOHLRABI

**CULTURE:** oz/28 gr contains 8,000 seeds. Sow from April to July .5 in/13 mm deep. Thin to 4 in/10 cm apart. Seed is screened for Black Rot and Black Leg. SIZED SEED.

**169C WINNER** 57 days. F1 hybrid. Replaces Grand Duke with a heavier yielding semi globe, pale green 18 oz/510 g bulb. Pkt. (100 seeds) \$3.00; 1,000 seeds \$8.55; 5,000 seeds @ \$5.88 per M; 25,000 seeds @ \$4.75 per M; 100,000 seeds @ \$3.78 per M.

**169R QUICKSTAR** 59 days. F1 hybrid. Pale green, flat-round, very smooth, very uniform bulbs. Plants are a darker green, slow bolting. Replaces Rapidstar. Pkt. (100 seeds) \$2.70; 1,000 seeds \$14.09; 5,000 seeds @ \$9.69 per M; 25,000 seeds @ \$7.82 per M; 100,000 seeds @ \$6.24 per M.

## OPEN POLLINATED

**167 EARLY PURPLE VIENNA** 55 days. Red-purple, flat globe, roots have white flesh.



Black Magic

## OKRA

**CULTURE:** oz/28 gr: 500 seeds. Sow June 10th .5 in/13 mm deep (1 seed per in/25 mm) in 3 ft/91 cm rows. Thin to 12 in/30 cm. Eat pods while still young. In short season areas - if you can grow good sweet corn, you should be able to harvest good okra.

## OPEN POLLINATED

**226D ZARAH** 42 days. Vigorous strong plant (40 in/100 cm) in height provides early maturity and a distinctive high yield of dark green, slender ridged pods. Plants have 3-4 green branches that continue producing throughout the summer. Pkt. (25 seeds) \$3.75; 100 seeds \$9.70; 500 seeds \$24.50; 1,000 seeds \$36.03.

**226B CLEMSON SPINELESS 80** 54 days. Compact 4 ft/122 cm plants produce dark green, fleshy, tender, ridged 5 in/12 cm pods which are spineless.

## MUSTARD (Mustard Greens)

**CULTURE:** Sow about April 1st for spring crops and August 15th for fall harvests. Seed directly into the field .25 in/6 mm deep, in rows 24 in/60 cm apart. Thin plants to 8 in/20 cm apart. Sow sized seed at oz/28 gr per 100 ft/31 m of row, 4 lbs/1.8 kg per acre.

**188A SAVANNA** 35 days. F1 hybrid. Early maturing, broadleaf Tendergreen type is slower to bolt. Smooth, thick, dark green leaves. Multiple harvests, spring or fall.

## OPEN POLLINATED

**188B SOUTHERN GIANT CURLED** 48 days. Large upright Indian Mustard-heavily curled dark green leaves with frilled margins. Tolerant to bolting.

**188 FLORIDA BROADLEAF** 50 days. Large semi-upright, spreading, leafy plant with round/oval medium green leaves and serrated margins. Creamy midribs.

NEW	KALE	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb
	168A Vates Blue Curled	120	3.20	6.65	9.90	23.70	20.75
	<b>KALE (M=1,000 seeds)</b>	# seeds per pkt	<b>Pkt</b>	<b>1,000 seeds</b>	<b>5 M per M</b>	<b>25 M per M</b>	<b>50 M per M</b>
	168C Blue Ridge Hybrid	100	3.75			LIMITED	
	168E Winterbor Hybrid	100	3.75	18.64		LIMITED	
✓	168F Black Magic O/P			1.81	1.70	1.13	1.02
	<b>KOHLRABI</b>	# seeds per pkt	<b>Pkt</b>	<b>oz 28 g</b>	<b>¼ lb 113 g</b>	<b>lb 454 g</b>	<b>5 lb @ per lb</b>
	167 Early Purple Vienna	200	2.15	4.35	6.85	18.95	16.10
	<b>MUSTARD GREENS</b>	# seeds per pkt	<b>Pkt</b>	<b>oz 28 g</b>	<b>¼ lb 113 g</b>	<b>½ lb 227 g</b>	<b>lb 454 g</b>
	188 Florida Broadleaf	500	3.00	10.55	13.55	19.55	29.05
	188A Savanna Hybrid	120	3.00	16.85	40.45	69.75	105.75
	188B Southern Giant Curled	1,000	2.15	3.10	4.30	5.85	8.45
	<b>OKRA</b>	# seeds per pkt	<b>Pkt</b>	<b>oz 28 g</b>	<b>¼ lb 113 g</b>	<b>lb 454 g</b>	<b>5 lb @ per lb</b>
	226B Clemson Spineless 80	50	2.15	3.80	6.80	17.00	10.20
	<b>LEEK Open Pollinated (M=1,000 seeds)</b>			<b>1,000 seeds</b>	<b>10 M per M</b>	<b>50 M per M</b>	<b>100 M per M</b>
	170H Arkansas			2.70	2.01	1.34	1.21
	170T Tadorna			5.26	4.07	2.93	2.57
	<b>HYBRID LEEK Primed Seed (M=1,000 seeds)</b>	# seeds per pkt	<b>Pkt</b>	<b>1,000 seeds</b>	<b>10 M per M</b>	<b>50 M per M</b>	<b>100 M per M</b>
	P170M Megaton	25	3.75	43.04	32.65	22.80	20.10
	P170V Vitaton		N/A	N/A	32.65	22.80	20.10
	P170W Belton	25	3.75	43.04	32.65	22.80	20.10
	170Z Matisse	25	3.75	32.92	24.98	17.44	15.38

## LEEK

**CULTURE:** 10,000 seeds per oz/28 gr. Sow indoors February - March; outdoors April - June, (2 seeds per in/25 mm) .25 in/6 mm deep at the bottom of 5 in/13 cm furrowed rows 18 in/46 cm apart. Thin to 6 in/15 cm apart. Fill in furrows gradually as plants grow. MATURITY - rated from transplant (add 32 days for direct seeding) SIZED SEED - All our seed is precision graded for commercial growers.

**170H ARKANSAS** 108 days. Best non bulbing winterhardy strain. Semi upright, dark, blue-green foliage with 6 in/15 cm white shafts. Frost tolerant.

**170T TADORNA** 108 days. Nice long 7-8 in/18-20 cm blue/green shaft is easy to clean, frost tolerant fall or N.J. over winter type. Leaf Spot/Yellow Spot tolerant.

## HYBRID LEEK

Several of our larger leek growers in northeastern U.S.A. and Canada have switched to hybrid leeks. Growers report that the hybrids germinate much faster in the greenhouse and transplants are faster growing and ready to transplant earlier. The hybrids are much easier to peel and clean, more uniform.

**P170M MEGATON** 105 days. Our best early, uniform F1 hybrid. Darker green leafed plants have low risk of bolting and a long harvest window. Medium length, high density white shafts have longer storage capacity or shelf life. Some intermediate tolerance to disease.

**P170W BELTON** 107 days. Medium long shaft, erect dark green plant. Very uniform and easy to clean.

**P170V VITATON** 109 days. Medium long shafted late variety. Strong disease tolerance to Pseudomonas syringae.

**170Z MATISSE** 110 days. Dark green upright plant with very long straight white shanks. Thicker and longer than Matejko. Easy to harvest.





Odyssey M.I.



Skyphos M.I.



Mighty Joe M.I.



N1Z44-4402 M.I.

## HEAD LETTUCE

Most types of lettuce prefer cooler growing temperatures of 50-60°F/10-16°C - therefore do poorly in hot weather. **STRESS:** All lettuces are O/P NOT hybrids - severe stress will cause many off types. Leaf and cos lettuce are both more suitable for warmer regions. Crops are acceptable on average soil with a neutral pH of 6, but much better on well-fertilized soils high in nitrogen. Since lettuce is about 95% water, plants require moist ground when rainfall is poor. **PELLETED SEED:** We carry a stock of pellets for popular leaf and head lettuces. When ordering pellets, please indicate on your order, very clearly, "Pelleted Seeds". **SIZED SEED:** All raw seed is precision sized. **CULTURE:** oz/28 gr 20,000; .5 lb/227 gr per acre (sized seed). **EARLY CROP:** Sow in hotbeds from Feb. 15th - Mar. 15th, transplant outdoors in April after hardening plants off, to stand frosts. Sow outdoors April 1st .25 in/6 mm deep (2 seeds per in/25 mm). Thin to 12 in/30 cm apart. Heads mature in July and August in rows 18 in/46 cm apart. **SOIL DISEASES:** Due to warmer weather in some Northeastern areas, growers have reported CRR (Corky Root Rot) and other Southern soil diseases in muck soils where proper crop rotation has not been done. **MOSAIC INDEXED SEED:** at 0/30,000 MI. This will not prevent mosaic in the fields unless growers control insects, perennial host plants and use clean containers.

### GREEN BIBB, BUTTERHEAD & BOSTON TYPES

**172 BUTTERCRUNCH** 60 days. Medium green, long standing Summer Bibb type. Stands 2 weeks longer. Crisp, thick leaves are sweet and tender, 10 in/ 25 cm plant. Standard variety for bedding plants. Limited.

**P172J ODYSSEY M.I.** 62 days. A dark green Butterhead/Boston with excellent tip burn and bolting tolerance. Heads are slightly larger and heavier than Baja. For fresh market or processing. Pellets only. See page 35 for prices.

**P172K CALIENTE M.I.** 64 days. Formerly called Bennett. Medium size heads are firm and heavy. Uniform dark green leaves have wavy edges and crisp texture. High yields. Very good Tip Burn tolerance. Excellent taste. Pellets only. See page 35 for prices. **pvp**

### SIMPLY SALAD™

(8-12 in/20-30 cm) Simply Salad delivers the first-ever multi-species, multi-pellet salad mixes. Supplied as multi-species multi-pellet seed with 3 or more seedlings per pellet. Each pellet contains a tasty, good looking, well balanced mix of greens that can be grown in 4 -6 in/ 10-15 cm pots or color bowls. Gardeners can harvest every 3 weeks by cutting back to 2 in/5 cm and re-grow several times for more fresh salads. Highly recommended for Bedding Plant Growers and Home Gardeners.

**P185X Alfresco Mixture** Red and green leaf lettuces with arugula, endive and radicchio give a true Mediterranean flavor and feel.

**P185Y City Garden Mixture** A traditional mix of red and green leaf lettuces that are easy on the palate.

**P185Z Global Gourmet Mixture** Red and green leaf lettuces and Asian greens make a nice mix of Asian flavors great in salads or stir-fry.

Simply Salad Prices: Pkt. (25 pellets) \$6.35; 250 pellets \$40.95; 1,000 pellets @ \$129.52; 10,000 pellets @ \$95.94 per M; 50,000 seeds \$83.95 per M.

## LETTUCE ABBREVIATIONS

**M.I.** - Seed is tested for Mosaic 0/30 M  
**NR** - Red Lettuce Aphid **LMV** - Lettuce Mosaic Virus

NEW	LETTUCE	# seeds	Pkt	¼ oz	oz	¼ lb	½ lb	lb	5 lb @
	Precision Sized Seed	per pkt		14 g	28 g	113 g	227 g	454 g	per lb
	172 Buttercrunch	600	2.15		2.45	4.65		13.10	11.45
	179B Green Salad Bowl	600	2.70	7.10	12.75	35.50		98.25	87.15
	179C Red Salad Bowl	600	2.70	8.80	15.80	44.05		121.90	
	185M Mild Mesclun Mix	1,200	3.95	9.55	15.35	42.85		118.50	105.10
	186A Simpson Elite	600	3.00		10.65	29.65		82.05	72.75
	LETTUCE	# seeds	1,000	5 M	25 M	50 M	100 M	500 M	1,000 M
	(M = 1,000 seeds)	per pkt	seeds	per M	per M	per M	per M	per M	per M
	185C Grand Rapids TBR		1.75	0.70	0.60	0.55	0.42	0.40	0.38
	185F New Red Fire MI		1.75	1.00	0.85	0.80	0.60	0.57	0.55

### RED BOSTON TYPE

**P173S SKYPHOS M.I.** 47 days. The reddest butterhead in our trials. Beautiful large dark red heads have contrasting green centers. Plants are also tolerant to bolting and have excellent texture and flavor. The surest heading and most widely adaptable red butterhead. Highly tolerant to Downy Mildew races 1-26; tolerant to NR and LMV. Pellets only. See page 35 for prices.

### MOSAIC INDEXED SEED (M.I.)

**M.I.** - These initials that follow the variety name or number indicate that the seed was tested for seed borne Mosaic @ 0/30 M by the originator to protect our customers using large field or greenhouse plantings. This is a costly test. If you use **non MI** varieties use that seed for bedding plants or for local gardens only.



Global Gourmet Mix

## HEAD LETTUCE (ICEBERG)

**NEW P173N NIZ44-4402 M.I.** 68 days. Uniform, dark green, early, medium size iceberg type with mildew tolerance. Heads are round, very uniform, maintain good color and eye appeal after harvest. Easy to harvest and easy to pack. Requires less spray for mildew. Pellets only, see page 35 for prices.

**P176F MIGHTY JOE M.I.** 88 days. Replaces both Ithaca 989 M.I. and Skyline M.I. with a larger iceberg type. Plants are vigorous and have excellent texture. Very uniform, round heads with good leaf cover and exceptional head weight. Pellets only, see page 35 for prices.

**P173C CARETAKER M.I.** 88 days. Darker green medium sized iceburg type heads with good texture and taste. Wrapper leaves are long and moderately savoyed. Cap leaf provides protection from tipburn. Pellets only, see page 35 for prices.

### MESCLUN MIX

Mesclun is the fastest growing, new, commercial pre-packaged product sold to chain stores. Mesclun is a mixture of lettuces, pak choi, endives, tsai tai, kale and other leafy greens in red and green shades. Crops of tender, young green leaves are clipped from young plants which regrow. Mesclun can be grown in seedling beds, outdoors, from spring till frost - or it can be grown indoors in a cool greenhouse on benches or hydroponically. Now the number one ingredient in California salad bars.

**CULTURE:** Shake package thoroughly before sowing to ensure that seeds are mixed properly. Space seeds .5 in/10 mm apart in a 2-4 in/5-10 cm band and lightly cover with .125 in/4 mm of fine dry soil and firm. Begin harvesting in 3 weeks with sharp scissors or electric hedge clippers. Most plants in the mix will regrow. A packet sows about 18-20 ft/5.5-6 m; 17,000 seeds per oz/28 g.

**185M MILD MESCLUN MIX** 20 days. A blend of red and green leafy greens and lettuces. Ingredients include red and green Salad Bowls, red and green Rapids, red and green Cos plus Pak Choi, Hon Tsai Tai, kale and brassica greens. To add more spicy flavor, add endives, Lolla Rossa lettuces, arugula and chicory.

### EACH MILD MESCLUN MIX CONTAINS 2 SEPARATE PACKAGES.

(A) Lettuce, Endive, Chicory (Photo Below)  
(B) Oriental Greens, Kale, Mustards



Mild Mesclun Mix





Red Salad Bowl



Bergams Green



Triton M.I.



Ideal Cos M.I.

## GRAND RAPIDS AND SIMPSON TYPES

**186A SIMPSON ELITE** 41 days. An improved slow bolt strain of Black Seeded Simpson. Same lime green color. Used by bedding plant growers. Limited. **GS pvp**

**185C GRAND RAPIDS TBR** 45 days. Good tolerance to Tip Burn. **GS**

**P181K GREEN BAY** 48 days. Grand Rapids type. Uniform heads are slightly darker than Royal Green with medium sized, semi glossy, frilly leaves. Excellent tolerance to Tip Burn. Pellets only.

**P185H TWO STAR M.I.** 53 days. Darker green, slower bolting, Waldmann's type with much better taste. Heads stay open in the field and fold easily for packing. About a week slower to bolt than Waldmann's. Pellets only.

**P171S BERGAMS GREEN** 58 days. Versatile CRR tolerant (Corky Root Rot) green leaf lettuce is slow bolting during variable weather conditions, holds well in the field with good Tip Burn tolerance. Has also shown some tolerance to dieback (Tomato Bushy Stunt Virus) and LMV. Use for late spring, summer and fall harvests. **pvp** Pellets only. Patented Variety.

## SALAD BOWL TYPES

**179B GREEN SALAD BOWL** 48 days. Best medium green strain of Salad Bowl. Slow to bolt, each plant makes a decorative rosette of wavy rounded notched, tender leaves. Best loose leaf for roadside stands, in hot weather - holds flavor and fine texture in heat. **GS**

**179C RED SALAD BOWL** 51 days. Wine red version of Salad Bowl. Deeply lobed oak leaf pure red leaves during cool weather. **GS**



Stokes Extensive Lettuce Trials

Quality Seed Since 1881

## RED LOOSELEAF TYPES

**185F NEW RED FIRE M.I.** 43 days. Standard looseleaf red. Medium dark red fall color during short day length. Excellent tolerance to bolting, bright red color under longer day lengths. **GS** Pellets available.

**P185W RED EXPRESS M.I.** 55 days. Deep red color, on both sides of the leaf, is prominent throughout this large frame, loose leaf plant. Pellets only.

## COS OR ROMAINE LETTUCE

**P171G GREEN TOWERS M.I.** 74 days. The most popular Romaine for eastern USA and Canada. Extra large upright, dark green heads are less cupped at the top than other Cos types. Leaves are lightly savoyed with smooth ribs. Pellets only.

**P171D IDEAL COS M.I.** 75 days. Standard medium green, long, smooth leaved Romaine for the New Jersey/Delmarva growing areas. Same silver green color as Parris Island Cos. Pellets only.

**P171F TRITON M.I.** 75 days. Dark green uniform Romaine has a large frame similar to Green Towers with a large "butt" for superior head weight. Good heat tolerance. Plant produces hearts, fresh market heads and good packaged material. Pellets only.

NEW	PELLETED LETTUCE (M = 1,000 seeds)	# of seeds per pkt	Pkt	250 seeds	1 M seeds	10 M per M	50 M per M	100 M per M	1,000 M per M
	P171D Ideal Cos M.I.				5.41	4.75	3.15	2.36	2.17
	P171F Triton M.I.				3.93	3.45	2.28	1.71	1.57
	P171G Green Towers M.I.				3.35	2.35	1.55	1.16	1.07
	P171S Bergams Green				3.85	3.38	2.24	1.67	1.54
	P172J Odyssey M.I.				4.25	3.70	2.44	1.83	1.68
	P172K Caliente M.I.				4.80	4.22	2.79	2.09	1.92
	P173C Caretaker M.I.				3.93	3.45	2.28	1.71	1.57
✓	P173N NIZ44-4402 M.I.				3.85	3.38	2.24	1.67	1.60
	P173S Skyphos M.I.	25	3.00	6.05	20.92	19.96	10.30	9.53	9.01
	P176F Mighty Joe M.I.				4.25	3.70	2.44	1.83	1.68
	P181K Green Bay				4.25	3.70	2.44	1.83	1.68
	P185F New Red Fire M.I.				3.47	3.05	2.02	1.51	1.39
	P185H Two Star M.I.				3.00	2.58	1.70	1.28	1.17
	P185W Red Express M.I.				4.95	4.35	2.88	2.16	1.98



Simpson Elite



Red Express M.I.



Green Towers Cos M.I.



PRINTABLE ORDER FORM



Sugar Cube



Goddess



Jaipur



Athena



Ariel

## HYBRID MUSKMELON AND CANTALOUPE

**CULTURE:** A packet of hybrid seed contains enough for 15 hills; 900 seeds per oz/28 gr - or about 550 ft/168 m of row; 1.5-2 lbs/.8 kg per acre. For short season areas, sow indoors or in the greenhouse from April 15th - May 15th. Use 3 in/8 cm Jiffy Strips, at 2-3 seeds per pot, .5 in/13 mm deep. Soil temp. is critical, seed requires 5-10 days at 65-75°F/18-24°C. Seed will not germinate at lower soil temp. Cantaloupes like warm sandy ground, and they will not tolerate a highly acid soil (too much fertilizer). Clay soils are not recommended. Space hills, groups or pots 2 ft/61 cm apart in rows 6 ft/2 m apart. **POLLINATION:** Commercial fields must use 2 bee colonies per acre (placed in field, not on borders). Melons must have full sun or the flesh color will get pale.

**190L HALONA** 68 days. An earlier 6 in/15 cm globe shaped. Melons average 4-5 lb/1.8-2.3 kg with well ribbed (sutures) and heavy netting. Thick orange flesh, with a 14-15% brix. Tolerant to PM.

**195S SUGAR CUBE** 69 days. Unique disease tolerance! This is a small 2 lb/1 kg personal size melon with a high sugar taste (14% brix). Deep orange flesh, tight interior, amazing taste, disease tolerance and extended shelf life make this melon a winner. Tolerant to Fusarium 0,1,2; ZYMV; PRSV and WMV.

**195G GODDESS** 70 days. Excellent early yields. 4-6 lb/1.8-2.7 kg large melons harvest at .5 slip. Fruit average 7 x 5 in/12 x 18 cm with fine netting and shallow sutures. Orange flesh is very sweet. Tolerant to Fusarium 0,1,2 plus Powdery Mildew 1, 2.

**195A AVATAR** 73 days. Oval, 8 lb/3.6 kg, eastern shipper with high sugars, deep orange interiors. Fusarium 0,1,2 plus PM 1,2 tolerances. Great taste.



Avatar



Rockstar



**195R ROCKSTAR** 74 days. Nice second early large Eastern shipper with outstanding taste. Lightly sutured, medium netted 5-7 lbs/2-3 kg, firm orange interiors. Tolerant to Fusarium 0, 1, 2 plus intermediate PM 1, 2.



**195D DUTCHESS** 75 days. Perfect medium size, oval 4.5 lbs/2 kg Eastern shipper with amazingly high sugar (14% brix) Firm orange interiors and nice netting. Great holding qualities in stores. Good tolerance to Fusarium 0, 1, 2 and PM 1, 2.

**196D PRIMO** 79 days. High sugar, 12% Brix, large 8.25 lb/4 kg oval 7.5 in/18.5 cm smooth heavy netted shipping type. Tolerant to DM, PM, F1, F2. Best disease package.

**196L APHRODITE** 80 days. Large 6-8 lb/2.7-3.6 kg round/oval melons are larger than Athena. Great taste. Tolerant to Fusarium 0,1, PM 1. NOTE: Vendor requires a signed waiver for 1,000 seeds and over.

**196F JAIPUR** 86 days. Tolerance to Fusarium 0,1,2 and intermediate PM. Fruit are 5 lbs/2.4 kg. oval in shape. Flesh is dark orange - taste is excellent!

**196M ARIEL** 82 days. Provides a larger 6 lb/2.7 kg melon than Athena. Very uniform rounded oval shape with excellent dense netting with a taste similar to Athena. Tolerant to Fusarium 0,1,2 and PM. NOTE: Vendor requires a signed waiver on all orders over 1,000 seeds.

**196E ATHENA** 85 days. Attractive 5-6 lbs/3 kg oval melon has firm deep salmon/tan color flesh. Excellent shipper. Tolerant to both races of PM and all 3 races of Fusarium. NOTE: Vendor requires a signed waiver on all orders 1,000 seeds & up. Please contact Sales Dept.

## HYBRID MEDITERRANEAN MELON

**194L LAMBKIN** 68 days. Stores several weeks longer in the refrigerator than other melons. Harvests 2 weeks earlier than similar types. Unique high sugar flavor. Yellow mottled skin, white flesh, 4 lb/1.8 kg fruit. AAS Winner.

## HYBRID HONEYDEW MELONS

**194B PASSPORT** 73 days. Honeydew x Galia type. Large 6-7 in/15-17 cm early fruit average 5-6 lbs/2.6 kg. High sugar flavor, 12-13% Brix, slips when ripe. Banana-like aroma, green flesh. Tolerant to ANTH only.

**190K DESTACADO** 85 days. Main season honeydew with large 4-6 lb/2 kg round fruit. Tolerant to Fusarium 0,2. High brix.

**195B DREAM DEW** 76 days. Uniform honeydew. Round large fruit packs 6-8 lbs/2.7-3.6 kg size 4's. Light cream exteriors, cream/green interior. High sugar taste. Tolerant to Fusarium 1,2 and PM 1,2.

**194A CRETE** 88 days. Green skin, netted honeydew with tolerance to PM, DM and Fusarium. High sugar content (Brix) of 8-12%. Good netting and shelf life, 2.5 lbs/1 kilo weight, pale green flesh color.



**195C SUMMER DEW** 88 days. Very firm uniform 5.5 lbs/2.5 kg round/oval industry standard for shipping with good extended field holding capabilities. Strong vines, widely adapted. Fruit have cream exteriors, typical white/lime green interior and 12-14 high sugar brix taste. Tolerant to Fusarium 0, 2 and intermediate PM 1, 2.



Dream Dew



Dutchess



Passport



Destacado

NEW	HYBRID MUSKMELON AND CANTALOUPE	# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	10 M per M	25 M per M	100 M per M
	190K Destacado	25	5.30	38.85	95.96	89.31	77.26	69.37	61.48
	190L Halona	25	5.10	21.75	53.77	50.05	43.30	38.87	34.45
	194A Crete	25	3.05	21.95	54.25	50.49	43.68	39.22	34.76
	194B Passport	25	5.10	23.30	57.58	53.59	46.36	41.63	36.89
	194L Lambkin	25	5.75	59.30	146.44	136.29	117.91	105.86	93.82
	195A Avatar	25	5.30	32.75	80.90	75.29	65.14	58.48	51.83
	195B Dream Dew	25	5.30	34.95	86.35	80.36	69.52	62.42	55.32
✓	195C Summer Dew	25	5.30	33.60	83.01	77.26	66.84	60.01	53.19
✓	195D Dutchess	25	5.30	30.35	74.95	69.76	60.35	54.18	48.02
	195G Goddess	25	5.30	31.95	78.90	73.43	63.53	57.04	50.55
✓	195R Rockstar	25	5.30	31.80	78.52	73.08	63.22	56.76	50.31
	195S Sugar Cube	25	5.30	32.90	81.30	75.67	65.46	58.78	52.09
	196D Primo	25	3.25	14.10	34.86	32.44	28.07	25.20	22.33
	196E Athena	25	5.30	39.60	97.86	91.08	78.80	70.75	59.73
	196F Jaipur	25	5.30	31.85	78.73	73.28	63.39	56.92	48.06
	196L Aphrodite	25	5.30	38.40	94.86	88.29	76.38	68.58	57.90
	196M Ariel	25	5.30	38.40	94.86	88.29	76.38	68.58	57.90





Gallop Hybrid



White Lisbon



Southport White Globe



Green Banner

## WHITE ONIONS FOR BUNCHING

There is an increasing demand each year for scallions or bunching onions (onions sown thicker and harvested before they develop bulbs). We list the ones best suited to meet your requirements over the entire year. The most extensively used variety for bunching during the summer is Gallop. We also suggest you try Feast or Tokyo Long White as non bulbing types. For "scallions" with a slightly swollen bulb - use White Lisbon. Note: Dates to maturity of all bunching onions indicate the time required to produce green onions. ORGANIC GROWERS should not have too much trouble with this species; most enemies can be washed off with a hose. Onions will withstand all kinds of abuse and bugs. Your biggest problem will be weed control. Mulch with grass clippings or straw and cultivate carefully to control weeds. Sometimes early seedlings are troubled by onion maggots causing them to rot. Maggots can be troublesome in the spring and Sept/Oct. Spray Malathion 3 times at 7 day intervals as soon as flies are seen. CULTURE: oz/28 gr 6,000 seeds; 4-6 lbs/2-3 kg per acre, depending on seed size, which varies up to 30%. Sow in late Apr. - June 25th. Hardy types July 1st, .5 in/13 mm deep, rows 18 in/46 cm apart. GRADED SEED: Most of our commercial strains of bunching onions have been precision graded to improve uniform seed vigor and complement Stanhay or Nibex seeders. This service is included in the price of our seed and is marked GS.

**218G GALLOP 60 days.** F1 hybrid traditional Japanese non bulbing type. Deep green, straight upright shafts are thick and very uniform with medium branching. Shafts are very high quality with sweeter cooked flavor than O/P's. Excellent heat tolerance for summer harvests. Transplant deep or mound soil around shafts, like leeks, to increase length of blanched stem. **GS**

**220 WHITE LISBON 60 days.** Earliest bunching onion - this one bulbs early. Must be harvested before the bottom of the shaft swells too much. Popular in Detroit area as a "scallion". **GS**

**216D GREEN BANNER 60 days.** Strong dark tops, very nice long white shafts. Vigorous plant has a strong root system with good tolerance to extreme heat. Tolerant to fusarium basal rot plus an intermediate tolerance to pink root. **pvp, GS.** Patented Variety. 1,000 seeds \$2.01; 10,000 seeds @ \$1.18 per M; 25,000 seeds @ \$0.79 per M; 50,000 seeds @ \$0.61 per M; 100,000 seeds @ \$0.57 per M.

**213W WHITE GEM 62 days.** F1 hybrid. Shiny, dark green upright foliage contrasts well with the medium length white shanks. Plants have excellent field standing ability. Use for summer-fall harvests. Mild flavor. Much easier to bunch and heavier yielding than O/P types. **GS**

**217D EMERALD ISLE 64 days.** A non-bulbing heat tolerant bunching type with very erect foliage which will allow good chemical spray efficiency and rapid drying during humid conditions. Medium green, strong straight tops keep color in heat. **GS**



White Gem Hybrid

**215A SOUTHPORT WHITE GLOBE (Green Bunching) 65 days.** Used exclusively for the production of green bunching onions that are mild and sweet. For a large white Spanish cooking onion, use transplants spaced 6 in/15 cm apart. For untreated seed, order **UT215A. GS**

**217B ISHIKURA IMPROVED 66 days.** Similar to Tokyo Long White but has improved long distance shipping qualities. Upright stiff tops are paler blue green than Tokyo Bunching. Single stems with little or no bulb. Excellent for spring or late summer harvests in BC, South Jersey. Not winter hardy. Similar to White Spear. **GS**

**219 FEAST 68 days.** An improved Tokyo Long White type with tolerance to Downy Mildew and Alternaria Leaf Spot. A single stalk type, upright plant habit 16-20 in/40-51 cm long white shafts, dark green leaves. Good heat tolerance for spring and summer East Coast production. Not winter hardy. **GS**

**217A TOKYO LONG WHITE 68 days.** Replaces Long White Sakata, but has more upright, stiffer, blue green tops. Grows with single stems, little or no bulb, for fall or summer bunching. Not winter hardy. **GS**



White Sweet Spanish



Ishikura Improved

## DUAL PURPOSE TYPE

**217 WHITE SWEET SPANISH** This makes a beautiful globe shaped, white Spanish onion in 120 days from transplants (plants spaced 6 in/15 cm apart). It can also be sown thicker for a nice dark green bunching onion, maturing in the July or August heat. As a green onion, uniform stems are slow to bulb in 75 days. **GS**

## HARDY OVERWINTERING TYPE

**216B EVERGREEN WHITE NEBUKA** Very hardy for over wintering. Sow in spring for summer use or sow in fall for over wintering. Little or no bulbing. **GS**

**216 HARDY WHITE BUNCHING 70 days.** An improved strain of Japanese bunching (He shi ko). A hardy, non bulbing type, long, slim pure white stems. For summer crops or wintering over the following spring. **GS**



Feast

NEW	BUNCHING ONIONS		# seeds Per pkt	Pkt	oz 28 g	1/4 lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb
	215A	Southport White Globe	600	2.45	5.50	12.10	32.50	29.55	27.26	25.31
	216	Hardy White Bunching	600	2.45	5.95	13.05	34.95	31.80	29.33	27.22
	216B	Evergreen White Nebuka	600	2.75	5.95	13.05	34.95	31.80	29.33	27.22
	217	White Sweet Spanish	600	2.45	5.55	11.95	32.10	29.20	26.92	25.31
	217A	Tokyo Long White	600	2.65	5.90	12.95	34.75	31.60	29.16	27.06
	217B	Ishikura Improved	600	2.45	6.50	14.25	38.25	34.80	32.10	29.79
	217D	Emerald Isle	600	2.45	7.55	15.95	42.80	38.90	35.90	33.32
	219	Feast	600	3.50	19.25	42.35	113.55	103.30	95.29	85.59
	220	White Lisbon	600	2.45	5.55	12.10	32.50	29.55	27.26	25.31
	BUNCHING ONIONS HYBRIDS		# seeds Per pkt	Pkt	oz 28 g	1/4 lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb
	213W	White Gem Hybrid	600	4.05	12.15	26.75	71.75	65.25	55.88	52.27
	218G	Gallop Hybrid	600	4.05	28.15	61.95	166.05	151.05	139.34	129.33





Hendrix



Trekker



Trailblazer



LaSalle

## STOKES HYBRID ONIONS

**CULTURE:** oz/28 gr sows 200 ft/61 m; 3-5 lbs/1-2 kg per acre, depending on seed size. Sow Apr. 10th to May 10th. 5 in/13 mm deep at 2 seeds per in/25 mm, thin to 2-3 in/5-8 cm apart. Precision seeders from 12-14 seeds per ft/31 cm in single or double rows, 16 in/41 cm apart. Use Arasan for smut control, Ethion for maggots, before sowing. Growers must compare seed size before sowing, to determine the seeding rate. **HARVEST:** As bulbs reach an acceptable size, pull plants or bend tops at the bulb neck. Pile in wind rows, so that bulbs are cured by the sun for at least a week. Stokes introduced the first hybrid onions used in Northeastern USA and Canada in the early 1950's. Since then, we have continued to work closely with the breeders from Crookham, Seminis, Takii and Nunhems to help develop and promote the best new hybrids for Northeastern growers. Contact your commercial Stokes sales person for information on new experimental varieties.

### EARLY VARIETIES

**210V ALPINE** 75 days. Extra early firm, globe bulb with thin neck. Great color and some tolerances to Botrytis and Downy Mildew. Use for transplants or direct seeding. Suited for short term storage.

**210B NORSTAR** 78 days. Standard early, short term storage hybrid. Bulbs are medium size, with fair skin. Still popular above 41st parallel. To increase size and earliness - use as a first early transplant on sandy soils. Pellets available.

**210X HIGHLANDER** 85-90 days. Larger Norstar type for transplants or direct seeding in northern, long day areas. Slightly flat, globe shaped bulbs are lighter in color than Alpine, but very firm with thin necks. Excellent yield potential. Tolerant to Botrytis and Downy Mildew. Short term storage.

**212T RICOCHET** 95 days. Nice round/globe shape bulb, very hard, good brown color. Excellent root system performs well on mineral or muck soils. Medium storage type. Pellets available.

### SECOND EARLY VARIETIES

**213T TRAILBLAZER** 95 days. Second early long day - long storage type for muck or mineral soils. Very uniform, hard round globe has excellent skin, thin neck and great color. Should provide high pack outs and grade use for shipping or storage until May or June under optimal conditions. Trailblazer has a strong tolerance to foliar diseases like Botrytis. Slow to bolt when stressed. High yields. Pellets available.

**210F FRONTIER** 98 days. Medium term storage type with VERY uniform small necks and medium to large bronze bulbs. Frontier has comparable yields to Norstar and Eskimo but has better storage quality. Bulbs are tolerant to Fusarium Basal Rot and Pink Root.

**210T MOUNTAINEER** 99 days. Growers report that it produces a nice size Jumbo in dry or wet conditions, is very uniform with small necks and has attractive medium bronze skin. Bulbs are globe shaped, very firm with medium storage possibilities. Tolerant to Fusarium and Pink Root. Pellets available.



Harvesting Highlander Onion

### MAIN SEASON VARIETIES

**211T TREKKER** 100 days. An excellent long term storage onion which is very uniform, globe shaped with extra firm bulbs and very nice dark skin. It is slow to bolt and should store until May under optimum conditions. Trekker has a strong tolerance to both Basal Rot and Neck Rot. Improved storage capabilities provide a consistent quality pack out. Skin holds up well during storage and bulbs ship well after storage. Trekker provides the option for growers to sell from the field or store long term. Pellets available.

**210W NEBULA** 103 days. A large, very uniform, dark brown, globe shaped bulb provides an exceptionally high quality pack. Well suited for mechanical harvesting. Medium long 6-8 month storage possibilities. Plants have outstanding vigor and strong root system tolerances to both Fusarium and Pink Root. A top yielder in Michigan, NY and Canadian trials.

**211L LASALLE** 103 days. Large, dark bronze, long term storage onion with small neck. Excellent firmness and skin retention after 8 months storage. More of a round globe shape than Hamlet with same high yields and good storage possibilities. Tolerant to Pink Root and Fusarium. EX07718504. Pellets available.

**212D HAMLET** 105 days. Very uniform, tall globe bulbs, small necks, medium brown skin. Good main season variety. Some Pink Root and Fusarium tolerance. Long term storage, possibilities of 5-7 months. Good potential for high pack out after storage. Pellets available.

**214X HENDRIX** 108 days. Extra large globe shaped, medium gold bulbs with thin necks and a fairly good percentage of single centers. Plants have upright tops that stay green until harvest and have very good tolerances to bolting, Fusarium and Pink Root. Bulbs are very firm, have well retained skins and are well-suited to mechanical harvesting - 6-8 month storage potential. For untreated seed order **UT214X**.

### LATE SEASON VARIETY

**212C FORTRESS** 110 days. Dark brown skin, small necks, excellent appearance. Very uniform bulbs with high yield potential. Some tolerance to bolting, Pink Root and Fusarium. Round, dark skinned bulbs are very attractive after 7 months of storage.



### Seed Coatings - Pellet, Encrustment or Filmcoat

Contact our Sales Department for information on the various types of pellet coatings. Coatings used include OnX® and VISION.

NEW	HYBRID ONIONS (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	25 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	210B Norstar	300	3.50	7.47	4.39	2.92	2.65	2.38	2.11	1.90
	210F Frontier	300	3.50	7.64	4.49	2.99	2.71	2.43	2.16	1.95
	210T Mountaineer	300	3.50	7.80	4.59	3.06	2.77	2.49	2.20	1.99
	210V Alpine	300	3.50	8.99	5.29	3.52	3.19	2.87	2.54	2.29
	210W Nebula		N/A	7.64	4.49	2.99	2.71	2.43	2.16	1.88
	210X Highlander	300	3.50	8.99	5.29	3.52	3.19	2.87	2.54	2.29
	211L LaSalle	300	3.50	8.58	5.05	3.36	3.05	2.74	2.42	2.16
	211T Trekker		N/A	10.29	6.06	4.03	3.66	3.28	2.91	2.63
	212C Fortress	300	3.20	7.12	4.19	2.79	2.53	2.27	2.01	1.79
	212D Hamlet	300	3.50	7.32	4.31	2.87	2.60	2.33	2.07	1.84
	212T Ricochet	300	3.50	7.82	4.60	3.06	2.78	2.49	2.21	1.97
	213T Trailblazer	300	3.50	9.44	5.56	3.70	3.35	3.01	2.67	2.41
	214X Hendrix	300	3.50	8.43	4.96	3.30	2.99	2.69	2.38	2.12
	<b>ONION PELLETS (M = 1,000 seeds)</b>			<b>10 M</b>	<b>50 M</b>	<b>100 M</b>	<b>1000 M</b>			
	<b>Minimum Order 10M - POSTPAID</b>			<b>per M</b>	<b>per M</b>	<b>per M</b>	<b>per M</b>			
	P203H Mercury			7.42	4.63	4.19	3.39			
	P203S SV4643NT			7.77	4.84	4.38	3.54			
	P210B Norstar			4.77	3.05	2.76	2.28			
	P210T Mountaineer			4.97	3.15	2.87	2.37			
	P211L LaSalle			5.43	3.43	3.12	2.54			
	P211T Trekker			6.44	4.04	3.66	3.01			
	P212D Hamlet			4.69	2.98	2.71	2.22			
	P212T Ricochet			4.98	3.16	2.87	2.35			
	P213L Verrazano			5.27	3.33	3.03	2.47			
	P213T Trailblazer			5.94	3.73	3.39	2.79			
	P222A Candy			5.67	3.57	3.25	2.64			



PRINTABLE ORDER FORM

Stokes Seeds Inc.



Solstice



Milestone



Verrazano



Riverside Sweet Spanish



Ailsa Craig Exhibition

## LATE SEASON HYBRIDS

**210S MILESTONE** 110 days. Bulbs are very large, globe shaped, extra hard with beautiful skin and thin necks, which cure down quickly. Milestone is a medium storage onion, with a high percentage of single centers for processing and good tolerance to bolting. Extensive root system helps to provide an excellent pack out and yield at harvest.

**213L VERRAZANO** 110 days. Uniform medium bronze bulbs have excellent skin retention for such a large onion. Plants have strong root system with excellent yield potential. Tolerant to Fusarium; some Pink Root tolerance. Stores until February. Pellets available.



Ruby Ring



Countach



SV4643NT

## SPANISH ONIONS

**CULTURE:** Sow seed thinly indoors in seed flats during January or February. Trim tops to 4 in/10 cm in height each week as plants become established. Transplant outside, early in the spring, space plants 6 in/15 cm apart in rows in April, bulbs mature in September. "All seed is precision sized". Use transplants above the 40th parallel (Columbus, OH).

**222A CANDY** 105 days. F1 hybrid. Large jumbo Spanish, light golden yellow skin, globe shape, very sweet mild white flesh. Bulbs have small necks and are stored for short terms only. Pellets available.

**214M MONTERO** 105 days. F1 hybrid. Jumbo, globe shaped brown bulbs have high percentage of single centers. Excellent Pink Root tolerance plus some tolerance to bolting and Fusarium. Short term storage.

**210P VISION** 110 days. F1 hybrid. Nice long day x spanish hybrid provides extra firm, copper/brown skin bulbs with very small necks, medium length storage possibilities. Used for rings or fresh market.

**205B AILSA CRAIG EXHIBITION** 110 days. Replaces Kelsae Sweet Giant with a similar sister line. Huge, mild, Spanish with the same color, size and unique sweet flavor. Bulbs average 5 lbs/2.4 kg for September harvest from transplants. Short term storage. O/P Pkt. (300 seeds) \$2.45; 1,000 seeds \$3.39; 10,000 seeds @ \$2.00 per M; 25,000 seeds @ \$1.33 per M; 50,000 @ \$1.21 per M; 100,000 @ \$1.17 per M; 500,000 @ \$1.06 per M.

**205 RIVERSIDE SWEET SPANISH** 115 days. Selected over many years for mildness and flavor. Bulbs often measure 5 in/13 cm across, skins are thick, necks are small - stores till early winter. Riverside Sweet Spanish can also be used for sowing directly into the field where it will often produce more bushels per acre than any other variety. For untreated seed, order **UT205**. O/P Pkt. (600 seeds) \$2.70; oz. \$6.15; 1/4 lb. \$12.10; lb. \$32.50; 5 lb @ \$28.10 per lb; 25 lb @ \$27.26 per lb.

**205C WALLA WALLA** 125 days. Transplant 8 week old plants outdoors after last spring frost. Produces very large, flattened ultra mild, sweet bulbs by mid Sept. O/P Pkt. (300 seeds) \$2.45; oz. \$8.85; 1/4 lb. \$29.15; lb. \$76.15; 5 lb @ \$74.65 per lb; 25 lb @ \$71.69 per lb.

## WHITE SPANISH HYBRIDS

**217F SIERRA BLANCA** 100 days. Formerly Super Star. White hybrid Spanish with Pink Root tolerance. Huge attractive globe shaped bulb is sweeter and milder than the O/P. Bulbs retain skin after 2-3 months of storage.

**211S SOLSTICE** 111 days. Storage white. Jumbo sized deep globe bulbs should store for 4 months and produce a high percentage of single centers, properly grown. Good tolerance to Fusarium and bolting, some Pink Root tolerance.

## RED HYBRID ONIONS

**203R RUBY RING** 108 days. F1 hybrid. Extra hard, firm bulbs with durable dark red skin - high percentage of single centers. Globe shape bulbs ship and store well.

**203K RED ZEPPELIN** 110 days. F1 hybrid. Medium size, uniform extra hard, globe shaped bulbs are dark red with nice pink/white interiors. Performs well as a transplant. Tolerant to Fusarium plus intermediate tolerance to Pink Root.

## RED HYBRID ONIONS

**203S SV4643NT** 110 days. Large round bulb has medium to dark red exterior with good internal color. Suitable for transplants or direct seeding in all onion areas of Northeast and Eastern USA and Canada. Medium storage potential. Pellets available.

**203H MERCURY** 115 days. Better color and medium storage possibilities than Mars. Large attractive uniform round red globe. Outstanding interior, nicely shaded red flesh, dark red exterior skin, and thin necks at full maturity. Tolerant to Pink Root and Fusarium. Pellets available.

**203M MARENCE** 115 days. Flat globe jumbo red that should store 4-6 months. Earlier than Red Wing with dark red interior/exterior color. Some tolerances to bolting and Pink Root only.

**203G COUNTACH** 118 days. Large globe jumbo size high quality dark red bulbs. Should store 4-6 months. Some tolerance to Pink Root and bolting only.

NEW	SPANISH ONION HYBRIDS (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	25 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	210P Vision		N/A	7.92	4.66	3.10	2.81	2.52	2.24	1.99
	211S Solstice (White)	300	3.20	10.46	6.16	4.10	3.72	3.34	2.95	2.63
	214M Montero	300	3.50	10.30	6.06	4.04	3.66	3.28	2.91	2.59
	217F Sierra Blanca (White)	300	3.20	10.57	6.06	4.03	3.66	3.28	2.91	2.59
	222A Candy	300	3.50	8.99	5.29	3.52	3.19	2.87	2.54	2.26
	HYBRID ONION (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	25 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	203G Countach (Red)	300	3.75	12.39	7.29	4.85	4.40	3.95	3.50	3.11
	203H Mercury (Red)	300	3.75	11.96	7.04	4.68	4.25	3.81	3.38	3.01
	203K Red Zeppelin (Red)	300	3.20	9.78	5.76	3.83	3.47	3.12	2.76	2.46
	203M Marengo (Red)	300	3.75	12.39	7.29	4.85	4.40	3.95	3.50	3.11
	203R Ruby Ring (Red)		N/A	10.12	5.96	3.96	3.60	3.23	2.86	2.58
	203S SV4643NT (Red)	300	3.20	12.56	7.39	4.92	4.46	4.00	3.54	3.16
	210S Milestone	300	3.00	7.69	4.53	3.01	2.73	2.45	2.17	1.96
	213L Verrazano	300	3.20	8.31	4.89	3.26	2.95	2.65	2.35	2.09





Albion



Harris Model



Laura



Forest Green



Gigante d'Italian



Oregon Giant

## PARSNIP

Parsnips have been a favorite biennial in northern areas, since heavy frost or freezing is required to improve the flavor of the roots. CULTURE: A pkt. sows approx. 10 ft/3 m of row; oz/28 gr 100 ft/31 m; 3-4 lbs/1.3-2 kg per acre. Roto-till ground to a depth of 16 in/40 cm. Soil should be rather sandy and not too rich in fertilizer (which causes hairy roots). Sow seed May 1st, 5 in/13 mm deep, 3 seeds per in/25 mm in rows 18-30 in/46-76 cm apart. Seed germinates in approx. 21 days at 60°F/16°C soil temperatures. Thin to 3 in/6 cm apart.

**242 ANDOVER** 120 days. Our most popular O/P. Similar in size and shape to Harris Model, but has more of a gradually tapered, smooth, firm root with thicker tips and more refined, uniform shoulders. Averages 12 in/30 cm in length, with strong vigorous tops. Tolerant to Brown Canker. Stores 4-6 months. Crowns are raised, with smooth rounded shoulders. Roots clean up nicely - bright white and have an unusually high brix of 12% (very sweet).

**244 HARRIS MODEL** 120 days. Roots are longer and slimmer than Hollow Crown. Its smooth white, tapered shape makes it a favorite with growers for packaging or shipping. Remarkably free of side roots. For untreated seed, order **UT244**.

## HYBRID PARSNIP

**243C ALBION** 120 days. Very white, firm roots. High yield potential. Medium depth crowns taper more gradually to heavier tips with better white color than Harris Model. Very sweet taste. Some tolerance to Brown Canker.

**243A GLADIATOR** 120 days. Large, refined Hollow Crown shape, smooth white skin, vigorous tops, rounded shoulders. Tolerant to Brown Canker. Excellent taste, very sweet, stores 4-5 months.

Prices for Albion and Gladiator above: Pkt. (200 seeds) \$2.45; 1,000 seeds \$3.45; 10,000 seeds @ \$2.64 per M; 50,000 seeds @ \$1.95 per M; 100,000 seeds @ \$1.59 per M; 500,000 seeds @ \$1.29 per M.

## PARSNIP ROOTED PARSLEY TYPE

CULTURE: Must be grown in deep, well-worked muck or sandy loam soils, just like carrots or parsnips. Roots will twist in heavier soils. Use raised beds to allow for earlier pre-emergence cultivation. 500 seeds per pkt, oz/28 g contains about 15,000 seeds.

**229B HAMBURG HALF LONG** 85 days. Heavy shoulder, half long, wedge shaped roots resemble Chantenay carrots. A refined "Berliner" type. Preferred North American shape. Roots average 6 in/15 cm - conical shape.

CULTURE: Pkt. contains enough seed for 10 ft/3 m of row at 4-5 seeds per in/25 mm; oz/28 g contains about 15,000 seeds; 3 lbs/1.3 kg or more per acre. Parsley seed takes a long time to break through the soil, so crusting must be avoided. Seeds take at least 21 days to germinate and 5-6 weeks to emerge from the soil. Large commercial growers start sowing by late April and finish before the last spring frost. They recommend chilling the seed overnight in a refrigerator before planting - then sowing at 20 seeds per 12 in/30 cm in cold soils. Avoid crop rotation with carrots, celery or parsnip. Rotate with sweet corn, tomatoes or peppers. SOW: .25 in/6 mm deep in rows 15 in/38 cm apart. Use raised beds to allow for easy pre emergence cultivation. Thin plants 2-4 in/5-10 cm apart. Fertilize leaf types well with nitrogen. ROOT TYPES: Grow like carrots - over fertilization will cause hairy roots.

## PARSLEY

### PLAIN LEAF TYPES

**227L LAURA** 78 days. Smooth, small flat leaf bunching type. Vigorous upright growth. Very dark glossy green color. Strong stems. Tolerant to Black Spot.

**227H LARGE LEAF ITALIAN** 80 days. Refined Asgrow strain. Wide, flat and heavy, these dark green glossy leaves are without deep cuts.

**227J PINOCCHIO** 80 days. Flat, wide dark green leaf with shallow leaf cuts for processing.

**227R GIGANTE D'ITALIAN** 80 days. Extra large dark green, flat leaf, strong stems. Very aromatic.

### CURLED LEAF TYPES

**227F FOREST GREEN** 74 days. Deeply cut, dark green leaf. Erect, vigorous plant has good holding ability in hot weather and good grow-back after multiple cuts. For untreated seed, order **UT227F**.

**227C DARKI** 77 days. The most outstanding strain in our trials. Leaves are very dark green, very tight, heavy and curled. Excellent cold weather tolerance.

## STANDARD FOR BEDDING PLANTS

**228 CHAMPION MOSS CURLED** 80 days. Standard popular strain for bedding plant growers, leaves are finely curled, deep green. For untreated seed, order **UT228**.

### Plant Variety Protected

pvp

Seed must not be reproduced for sale without permission of the originator.

## EDIBLE PODDED PEAS

CULTURE: Dwarf variety is grown in rows. Harvest pods when the peas just become visible before they enlarge. Pods are cooked and eaten whole, like snap beans. Sow like regular peas, in early April. Some Chinese growers harvest only the buds and small tendrils for elite stir fry dishes. The pod itself, should be harvested just before you can see the outline of the immature peas (see photo top right). 2oz/57 g sows 15 ft of row; lb/4.54 g about 150 ft of row; 100lbs/45kg per acre. Sow Mar. 30th-Apr. 15th at 2.5 ft/78 cm apart. For more snow peas see page 16.

**231A LITTLE SWEETIE** 60 days. Our earliest, dwarf bush version of the "snow pea" family. Pods are harvested and eaten before they develop large peas. This strain is completely stringless. Compares to Oregon Sugar Pod II. Compact vines average 16 in/41 cm and are tolerant to July heat and most pea diseases. Pods are 2.5 in/6 cm long, bright green. Exclusive.

**231C OREGON GIANT** 60 days. The first high sugar snow pea. High yields of extra large 4.5 in x 1 in/10 cm x 2.5 cm medium green, flat pods. Vines average 2.5 ft/61 cm and have white flowers. Tolerant to Powdery Mildew, Common Wilt and Enation Mosaic. For pick your own or fresh market.

## SUGAR SNAP PEAS

CULTURE: Snap peas are distinctly different than snow peas. The pod walls are much thicker and develop tightly around the peas so that the pods develop round and firm at maturity. Pods "snap" just like a fresh green bean. Peas can be shelled and eaten like regular peas, or pods and peas can be eaten together just like snow peas. Grow like bush snow peas or garden peas.

**231E CASCADIA** 58 days. A short vine, compact bush, snap pea like Sugar Ann, with extra disease tolerance to Powdery Mildew and Enation Mosaic. Larger 3 in/7 cm, dark green pods.

**232D SUGAR SPRINT** 61 days. Semi stringless pods. Standard 3 in/7 cm medium size pods. Plants are vine type with 26 in/66cm vines averaging 20 snap peas per plant. Tolerant to Powdery Mildew. **pvp**. For untreated seed, order **UT232D**.

**232E TENDER SWEET** 67 days. 100% stringless, fiberless and double podded Sugar Snap. Tender very sweet pods are uniform, medium sized 2.75 in/6 cm in length. Determinate plants spread or climb 18 in/45.5 cm. Tolerant to Fusarium and Powdery Mildew.



Sugar SPRINT

NEW	PARSLEY		# seeds	Pkt	oz	¼ lb	lb	5 lb @	10 lb @	
			per pkt		28 g	113 g	454 g	per lb	per lb	
	227C	Darki	500	2.45	4.15	8.50	17.90	17.20	16.75	
	227F	Forest Green	500	2.45	4.45	10.05	22.90	21.80	19.35	
	227H	Large Leaf Italian	500	2.45	3.85	7.15	16.25	15.50	12.85	
	227J	Pinocchio	500	2.45	6.15	13.85	31.60	30.10	25.00	
	227L	Laura	500	2.45	4.05	8.45	19.35	18.40	15.30	
	227R	Gigante d'Italian	500	2.45	2.95	6.65	15.20	14.45	12.00	
	228	Champion Moss Curled	500	2.45	4.35	7.55	15.90	15.30	14.90	
	229B	Hamburg Half Long	500	3.00	5.05	10.10	23.10	20.80	19.95	
	PEAS		2 oz	½ lb	lb	5 lb @	25 lb @	100 lb @	500 lb @	
			57 g	227 g	454 g	per lb	per lb	per lb	per lb	
	231A	Little Sweetie	2.10	3.30	4.55	3.40	2.31	1.75	1.62	
	231C	Oregon Giant	2.10	3.30	4.55	3.40	2.31	1.75	1.62	
	231E	Cascadia	2.10	3.45	4.80	3.60	2.42	1.84	1.70	
	232D	Sugar Sprint	4.85	8.30	11.50	8.65	5.82	4.42	4.08	
✓	232E	Tender Sweet	2.90	4.95	6.85	5.15	3.46	2.63	2.43	
	PARSNIP		# seeds	Pkt	oz	¼ lb	lb	5 lb @	25 lb @	100 lb @
			per pkt		28 g	113 g	454 g	per lb	per lb	per lb
	242	Andover	200	2.55	15.65	36.45	53.20	71.10	67.75	60.16
	244	Harris Model	200	2.45	3.65	5.25	7.65	10.25	9.75	8.67
									8.41	





Knight



Sabre



Spring

## GARDEN PEAS

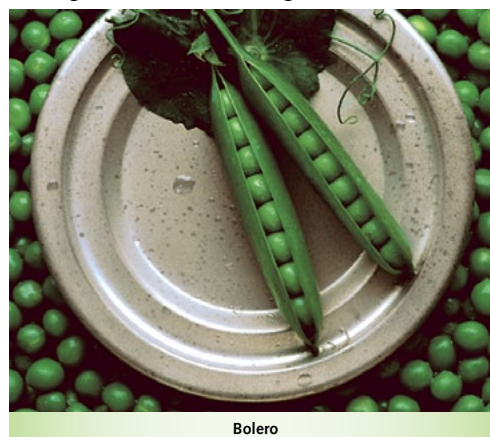
### MAIN SEASON VARIETIES

**237G ENCORE** 64 days. The most outstanding main season pea in our trials for high yields. Medium sized uniform pods contain 8-9 small sieve, medium dark green peas which are very sweet. An excellent choice for Pick-Your-Own, fresh market or processor plantings. Widely adapted. Tolerant to powdery Mildew and Fusarium Wilt.

**237H SABRE** 65 days. One of our best double podded types with dark green peas for early main season processing or fresh market. Average 3.90 sieve size (45% size 4) berries and 3.5 in/8.75 cm pods normal 24 in/61 cm dark green vines. Tolerant to Fusarium Wilt and Root Rot plus Powdery Mildew. For untreated seed, order **UT237H**.

**234 LINCOLN** 65 days. Old Homestead type. Well-filled slender 3 in/8 cm pods average 8-9 small peas of exceptional sweetness and flavor. Bushy 28 in/71 cm plants are tolerant to common wilt. For untreated seed, order **UT234**.

**234B BOLERO** 66 days. High yielding, high sugar freezing, medium size 3 in/8 cm double podded (7-9 peas) type. Bushy, 28 in/70 cm vigorous vines show tolerance to W, NW, PM, EMV, WP, RR, F and YM. For freezing, mechanical harvesting and PYO.



Bolero

### LATE SEASON VARIETIES

**NEW 237F JUMBO** 71 days. Large podded fall harvest type. Pods are about 5 in/12 cm long and are filled with 8-10 large dark green peas per pod with sieve 6.0 size. Vigorous 32 in/81 cm plants can be grown commercially in rows or trellised in smaller gardens. Use for fresh market or processing. Tolerant to Fusarium.

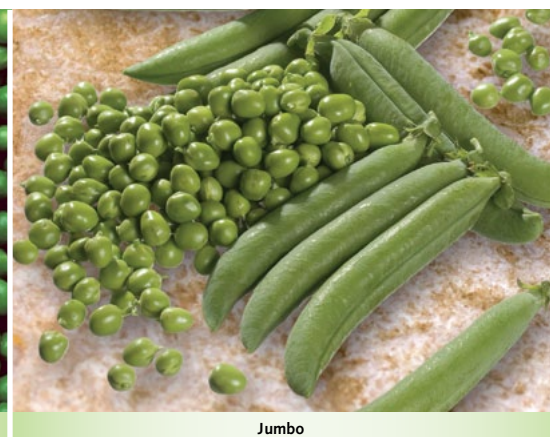
**237A UTRILLO** 71 days. Large podded fall harvest type. Pods are well filled averaging 5 in/12 cm in length, with 8-10 dark green, very sweet peas. Large spreading 30 in/75 cm vine. Sow in mid August for fall crops. Vines can be trellised or grown in rows.

**237C MR. BIG** 72 days. Best large podded fall harvest type. Well filled pods are slim and average 5 in/12 cm in length with 8-10 dark green, high sugar peas per pod. Vines average 30 in/75 cm. Sow mid August for fall crops. Good tolerance to Fusarium. AAS Winner. **pvp**

### GARDEN PEA DISEASES

**W** - Common Wilt Race 1  
**F** - Fusarium Race One  
**EMV** - Enation Mosaic Virus  
**YM** - Yellow Bean Mosaic  
**PLRV** - Pea Leaf Roll Virus

**RR** - Root Rot  
**NW** - Near Wilt  
**PM** - Powdery Mildew  
**WP** - Western Pea Virus



Jumbo

### EARLY VARIETIES

**236 SPRING** 52 days. A dark podded early. Pods average 3 in/8 cm, vines 22 in/56 cm. 6-7 medium sieve size dark green peas per pod. Recommended for freezing or fresh market. 2,100 seeds per lb. Tolerant to Fusarium Wilt.

**237K STRIKE** 56 days. Similar in maturity to Spring, with a slightly longer pod, smaller sieve size and additional tolerance to Pythium. Pods are dark green, 3.25 in/9 cm long. Tolerant to Fusarium wilt. **pvp**

### SECOND EARLY VARIETIES

**238A KNIGHT** 57 days. Earliest large berry/double podded type. Extra large 7-8 sieve berries; 4 in/10 cm pods. Vine length varies and some off types may occur under some conditions. Tolerant to Common Wilt, several Mosaics, Powdery Mildew.

**NEW 237E PREMIUM** 58 days. Medium sized 3 in/8 cm single and double blunt pods average 7 to 8 dark green peas per pod with 4.3 sieve size. Bushy 23 in/58 cm plants are very easy to cultivate and have a good tolerance to Fusarium. Use for fresh market or freezing.

**237M LEGACY** 59 days. An early Bolero type. Heavy yields of double and triple podded 3.5-4 in/9-10 cm pods, with an average sieve size of 4.00 on compact 24 in/60 cm dark green plants. Tolerant to Fusarium, Powdery Mildew and Pea Enation. **pvp**

NEW	GARDEN PEAS		2 oz	½ lb	lb	5 lb @	25 lb @	100 lb @	500 lb @	1,000 lb @
			57 g	227 g	454 g	per lb	per lb	per lb	per lb	per lb
	234	Lincoln	2.10	3.45	4.80	3.60	2.42	1.84	1.70	1.70
	234B	Bolero	3.15	5.35	7.40	5.55	3.74	2.84	2.62	2.56
	236	Spring	3.40	5.75	7.95	6.00	4.04	3.07	2.83	2.76
	237A	Utrillo	5.20	8.85	12.25	9.20	6.21	4.71	4.35	4.24
	237C	Mr. Big	5.30	9.05	12.50	9.40	6.35	4.82	4.45	4.33
✓	237E	Premium	2.10	3.45	4.80	3.60	2.42	1.84	1.70	1.66
✓	237F	Jumbo	2.10	3.45	4.80	3.60	2.42	1.84	1.70	1.66
	237G	Encore	2.95	5.00	6.90	5.20	3.50	2.66	2.45	2.39
	237H	Sabre	2.10	3.45	4.80	3.60	2.42	1.84	1.70	1.70
	237K	Strike	2.10	3.45	4.80	3.60	2.42	1.84	1.70	1.70
	237M	Legacy	2.10	3.45	4.80	3.60	2.42	1.84	1.70	1.70
	238A	Knight	2.10	3.45	4.80	3.60	2.42	1.84	1.70	1.70





Redstart

Early Sunsatation (X3R)

Alliance

Aristotle (X3R)

Intruder

Archimedes

## HYBRID SWEET PEPPERS

**CULTURE:** oz/28 g over 4,000 seeds; .5 lb/227 g of seed for an acre of transplants. Sow in greenhouse benches or flats - from Feb. to Mar. 15th. Germinate in Jiffy Mix at 70°F/21°C soil temp. for 14 days, .25 in/6 mm deep (8 seeds per in/25 mm). Transplant seedlings into deep plastic cell trays or Speedling trays when true leaves are about 3/8 in/10 mm in diameter. Well developed root systems are important to the success of the young field transplant. Grow at 70°F/21°C, reduce moisture slightly to harden. Keep night temp. above 62°F/17°C. Never let plants wilt. Make sure all your potting soil and greenhouse areas are sterilized for bacterial disease. **TRANSPANT 12-18 in/30-46 cm** apart in 30 in/76 cm rows - after June 5th. Early, cold June nights cause blossoms to drop, producing huge, bushy plants - without peppers. **BACTERIAL DISEASES:** All varieties are screened at 0/30,000 for Bacterial Spot or Georgia Treatment (Chlorine treated) to limit seed borne disease. The new X3R varieties are tolerant (but not immune) to races 1, 2 and 3 of Bacterial Spot. Be cautious of secondary bacterial infections from migratory insects and neighbours fields. Start spraying by late June and stay out of wet fields to limit spreading diseases. **FERTILIZER:** Peppers must be side dressed with Calcium Nitrate (never cheap nitrates) to promote plant root growth. This provides proper fruit size for early red bell and banana types. Use deep cell transplant trays to promote large roots.

**261F REDSTART** 65 days. Fantastic yields and taste. Dark green, 3.75 in/9.5 cm fruit ripen with loads of thick wall, 3-4 lobed red bells by Sept. Exclusive.

**261N INTREPID** 67 days. Early red blocky 4.5 in/11 cm square, 3-4 lobed bell. BLS 1,2,3 tolerance.

**260F RED KNIGHT (X3R)** 72 days. A larger blocky version of King Arthur with BLS 1,2,3 tolerance.

**254E ENTERPRISE** 72 days. Large bell 5x4.75 in/13x12 cm with thick flesh. Tolerant to BLS 1,2,3.

**261C BELL BOY** 72 days. Standard uniform 4.5 in/11 cm, square bell, 4 lobed thick walls for fresh market.

**267V SOCRATES (X3R)** 72 days. Nice blocky, thick walled, square fruit with BLS 1,2,3 tolerances.

**266J ALLIANCE** 74 days. Extra large, 3-4 lobed 4.5 in/11 cm square fruit have thick walls, smooth skin. Upright plants are tolerant to BLS 1,2,3 and 5; PVY; Pepper Mottle Virus; some tolerance to CMV.

**262J PATRIOT** 75 days. High yielding, blocky, thick walled 5 x 4.5 in/13 x 11 cm fruit are medium green - bright red at maturity. Tolerant to BLS 1,2,3,5 and PVY.

### COLORED BELLS

For additional colors - white, orange, gold and blue, see page 43.

**267W EARLY SUNSATATION (X3R)** 70 days. Early medium green 4.5 in/11 cm blocky fruit turn butter yellow. Tolerant to BLS 1, 2, 3. Larger fruit than Quantico, it ripens medium green to yellow.

**266Y MECATE** 75 days. Uniform, smooth, medium to large blocky fruit, matures green to yellow and does not turn orange. Tolerant to BLS 1,2,3; TMV; PMMoV 1,2 and PepMoV.



Tinker Bell Red

Tinker Bell Yellow

**267Y KARISMA** 75 days. Large, blocky 4.5 x 4 in/11 x 10 cm, 4 lobed fancy fruit, sets continuously on medium size strong plants. Smooth, dark green skin. Tolerant to BLS 1,2,3; PVY 0,1,2; TMV; PMV and some tolerance to CMV. Makes classy reds.

**P254C X3R CAMELOT** 75 days. 4 lobed, thick walled fruit 4.5 X 4 in/11 x 10 cm. Concentrated sets. Tolerant to TMV and BLS 1,2,3. Pellets only.

**266G REVOLUTION** 75 days. Uniform, extra large 4.5 x 4.5 in/11 x 11 cm dark green fruit matures to dark red. Very firm bell with tolerance to BLS 1,2,3,5. Intermediate tolerance to CMV and Phytophthora.

**267T ARISTOTLE (X3R)** 75 days. 4.5 x 4.5 in/11 x 11 cm uniform jumbo fruit ripen evenly from dark green to red. Tolerant to BLS 1,2,3; PVY; TMV.

**254U TOMCAT** 75 days. Classy, extra large 4.5 in/11 cm square bell. Concentrated sets of 4 lobed, thick walled, dark green fruit mature to a nice dark red. Tolerant to BLS 1,2,3,4,5; TMV and Tobacco Etch.

**254W INTRUDER** 75 days. Large, firm, 4 X 4.25 in/10 X 10.5 cm, 4 lobed, uniform fruit are produced on extra large, continuously setting erect plants. Very dark green smooth skin. Tolerant to BLS 1,2,3; TMV; Tobacco Etch and some Phytophthora tolerance.

## MAIN SEASON VARIETIES

**254K PALADIN** 75 days. Large deep blocky green to red bell. Tolerance to phytophthora root rot, TMV and ToMV. Upright plant has good leaf cover.

**266Q DECLARATION** 75 days. Continuous setting for bush or stake culture. Excellent packout of large fruit. Tolerant to TSWV and BLS 1,2,3,5.

**254Z VANGUARD** 75 days. Extra large slightly deep 4 lobed continuous setting fruit provide high quality pack outs for staked or bush culture. Tolerant to BLS 1,2,3,4,5 plus intermediate tolerances to CMV and Phytophthora.

**267Z ARCHIMEDES** 76 days. Blocky 4 x 4.5 in/10 x 11 cm, 3-4 lobed, green to red bell. Anthocyaninless (no streaks) fruit. Tolerant to BLS 1, 2, 3; PVY and some Phytophthora. For untreated seed order **UT267Z**.

**267X PS09941819 (X5R)** 78 days. Large, blocky 4 lobed fruit ripen uniformly green to red. Fruit produces less "silvering skin" than Aristotle with increased tolerance to BLS. Plants set continuously.

## MINIATURE BELLS

70 days. Bushy, mini sweet bell 24 in/60 cm plants are perfect for single gallon size bedding plant containers. Each plant can provide an average of 20-40 small, 1.75 in/4.5 cm, blocky fruit by early Sept. Thick walls, good taste.

**262K Tinker Bell Red**

**262L Tinker Bell Yellow**

### PELLETED SEED (Min. Order 5 M)

Please phone our Sales Dept. by Jan. 15th for prices.

**P267X PS09941819 (X5R)** **P267Z ARCHIMEDES**  
**P254C X3R CAMELOT** **P267T ARISTOTLE (X3R)**  
**P267Y KARISMA**

AM	HYBRID SWEET PEPPERS (M = 1,000 seeds)	# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	254E Enterprise	25	4.35	21.90	40.38	38.07	35.76	32.07
	254K Paladin	25	5.30	33.20	61.20	57.70	54.20	48.61
	254U Tomcat	25	6.10	43.00	79.20	74.68	70.15	62.91
	254W Intruder	25	6.10	41.15	75.80	71.46	67.13	60.20
	254Z Vanguard	25	6.55	46.30	85.26	80.39	75.51	67.72
	260F Red Knight (X3R)	25	6.35	36.80	67.75	63.88	60.01	53.81
	261C Bell Boy	25	3.75	24.75	54.97	48.46	44.29	36.73
	261F Redstart	25	4.75	19.55	43.47	38.32	35.02	29.05
	261N Intrepid	25	6.35	24.95	41.89	39.50	37.10	33.75
	262J Patriot	25	6.35	32.70	60.24	56.80	53.36	48.54
	262K Tinker Bell Red	25	6.35	48.95	108.67	95.79	87.55	74.68
	262L Tinker Bell Yellow	25	6.35	48.95	108.67	95.79	87.55	74.68
	266G Revolution	25	6.35	40.35	74.33	70.08	65.83	59.04
	266J Alliance	25	6.10	35.10	64.66	60.97	57.27	51.36
	266Q Declaration	25	6.35	42.95	79.11	74.59	70.07	62.84
	266Y Mecate	25	5.30	30.35	67.44	52.74	47.94	45.07
	267T Aristotle (X3R)		N/A	49.25	90.76	85.57	80.38	72.09
	267V Socrates (X3R)	25	7.15	42.20	77.74	73.29	68.85	61.75
	267W Early Sunsatation (X3R)	25	6.35	36.45	67.17	63.33	59.50	54.12
	267X PS09941819 (X5R)	25	7.15	52.30	96.36	90.85	85.35	76.54
	267Y Karisma	25	6.10	43.15	79.44	74.90	70.36	63.09
	267Z Archimedes	25	7.15	54.55	121.13	94.72	88.98	79.79



PRINTABLE ORDER FORM

Stokes Seeds Inc.



Earlibird Series



Gloria



Orange Blaze



Naples



Jumbo Stuff

## HYBRID COLORED BELLS

**255Q TELESTAR** 73 days. Extra large green to red 4.5x4 in/11x10 cm blocky fruit with thick walls and a compact plant. Comparable in size and shape to the Earlibird series. Replaces Wahoo 238. Tolerant to TMV; PVY P-0, 1.

### HYBRID EARLIBIRD SERIES

**255L GLORIA** 70 days. A standard high quality butter yellow that remains firm at maturity. Upright strong plants provide good leaf protection from sunscald. Tolerant to TMV.

**255F DOVE** 71 days. Large 5 x 4.75 in/13 x 12 cm productive fruit are very uniform with thick walls. Should be harvested immature for best creamy, near-white appearance. Good leaf cover. Ripens pale green/cream/pale yellow/pale orange/red. Tolerant to TMV.

**255D BLUE JAY** 73 days. Very productive and novel - ripens green/lilac/grape/pale orange/dark red. Fruit are quite blocky 4.5 x 4 in/11 x 10 cm. Thick walled, uniform fruit are tolerant to TMV.

Prices of each of the above three: Pkt (10 seeds) \$3.75; 100 seeds \$21.10; 500 seeds \$65.10; 1,000 seeds \$118.92; 5,000 seeds @ \$104.83 per M; 10,000 seeds @ \$99.76 per M; 50,000 seeds @ \$88.49 per M.

**255N DELIRIO** 75 days F1 hybrid. An improved Oriole and Orange Grande replacement, with excellent TSW tolerance. Blocky 4 lobe fruit average 4.25 in/12 cm, are dark green maturing to the same tangerine - orange as Oriole and Orange Grande.



### AAS Winner

Tested Nationally & Proven Locally®  
www.All-AmericaSelections.org

NEW	SWEET PEPPERS (55M - 60M seeds per lb)	# seeds per pkt	Pkt	½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g
	257B Yellow Cheese Pimento	100	2.70	25.50	37.45	83.90	158.50	274.40
	258 California Wonder	100	2.70	8.50	12.50	27.95	52.85	91.45
	258A Super Red Pimento	100	2.70	17.00	24.95	55.95	105.70	182.95
	259A Giant Szegedi	100	2.70	17.00	24.95	55.95	105.70	182.95
	262A Super Shepherd	100	2.70	11.60	17.05	38.20	72.20	125.00
	267U Yellow Belle II	100	2.70	23.35	34.30	76.90	145.30	251.55
	269C Super Sweet Cherry	100	2.70	19.10	28.05	62.90	118.90	218.30
	HYBRID SWEET PEPPERS (M=1,000 seeds)	# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	255N Delirio	25	6.35	49.80	110.58	97.48	89.09	73.89
	255Q Telestar	25	6.35	41.25	76.00	71.66	67.32	61.67
	UT261P Carmen	25	6.35	38.35	85.19	75.10	68.64	56.93
	261S Sandpiper	25	6.35	44.15	98.04	86.42	78.99	67.37
	261Q Orange Blaze	25	6.35	61.90	137.44	121.15	110.73	94.45
	262M Marcato	25	6.35	36.65	67.47	63.61	59.76	54.36
	262N Naples	25	6.35	25.10	55.79	49.18	44.95	37.28
	262Q Giant Marconi	25	6.35	24.10	53.51	47.17	43.11	35.76
	266K Cherry Pick	25	6.35	30.65	68.02	59.96	54.81	45.46
	266Z Kapello	25	6.35	35.90	79.79	64.28	58.61	53.32

## TAPERED BELLS, CHERRY & CHEESES

**258 CALIFORNIA WONDER** 72 days. The standard early strain for northeastern bedding plant growers. The best replacement for Jupiter, for a dark green to red bell. O/P

**267U YELLOW BELLE II** 70 days. Larger 4.75 in/12 cm square yellow bell fruit with thick flesh, four lobes. Ripens dark green to golden yellow by Sept.1st. O/P

### SWEET CHERRY TYPES

**266K CHERRY PICK** 68 days. F1 hybrid. Small 1.25 in/3 cm green fruit ripen dark red. Tolerant to Tobamo virus. Used for bedding plant sales.

**269C SUPER SWEET CHERRY** 75 days. Extra large 1¾ in/4 cm dark cherry red or dark green fruit for processing. Good crack and TMV tolerance. Exclusive.

### SWEET PIMENTO AND CHEESE TYPES

**258A SUPER RED PIMENTO** 70 days. TMV tolerant. Huge 5.25 in/14.4 cm wide, 3.25 in/8 cm deep fruit ripens green to red. Extra thick .5 in/1.3 cm sweet flesh.

**257B YELLOW CHEESE PIMENTO** 73 days. Large squash shaped fruit. Contrasts well with red or green types. Pale green/yellow/orange/red. Exclusive.

### TAPERED AND BELL SHAPED YELLOWS

**267J JUMBO STUFF** 67 days. F1 hybrid. Tapered, blunt nosed bell provides a larger hybrid version of Super Stuff. Walls are very thick. Ripens green/yellow/orange/red. Pkt (25 seeds) \$2.95; 1/16 oz \$22.40; 1/4 oz \$52.60; 1/2 oz \$97.70; oz \$174.20; 1/4 lb \$487.20; lb \$1,676.85.

**261S SANDPIPER** 73 days. F1 hybrid. Matures medium yellow to cream to red at full maturity. Uniform 4 lobed, slightly deep bell shape. Thick walls, firm, good shelf life, BLS 1, 2, 3 tolerances.

**266Z KAPELLO** 60 days. F1 hybrid. Miniature red 5 in/12 cm Italian type for bedding plant sales or gallon containers. Great taste.

## TAPERED ITALIAN TYPES

**261Q ORANGE BLAZE** 65 days. F1 hybrid. Medium sized 2-3 lobed 3.5 x 1.5 in/9 x 4 cm; 4.25 oz/125 gr, very tapered fruit ripen dark green to brilliant orange 10 days earlier than other orange sweet peppers. Tolerant to BLS 0, 3, 7, 8 and TMV. AAS Winner.

**262A SUPER SHEPHERD** 68 days. Popular open pollinated Italian Sweet type. Dark red 7.5 in/19 cm early fruit have very thick juicy flesh. High soluble sugars.

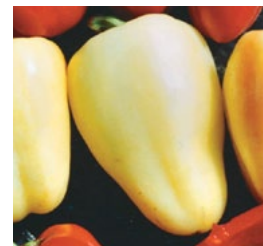
**262N NAPLES** 70 days. F1 hybrid. Super Shepherd tapered Italian type with tolerance to BLS 1,2,3,7,8. Higher soluble sugars than blocky bell types. Fruit have excellent red color, good firmness and average 4 oz/113 g in weight. Use for local markets, frying.

**262M MARCATO** 70 days. Jumbo F1 hybrid, 2-3 lobed horn shaped fruit are VERY sweet. Ripens green to blood red. Erect plants have good leaf cover. Tolerant to PVY0,1; TMV and PMMoV1, 2.

**259A GIANT SZEGEDI** 70 days. Large top shaped, pendant, fruit 4.25 x 2.75 in/10.5 x 6.8 cm. O/P

**UT261P CARMEN** 75 days. F1 hybrid. Unique, horn shaped Italian pendant type. Fruit averages 6½ in/16.5 cm long and ripens medium green to red. Tastes very sweet at maturity. Untreated Seed. AAS Winner.

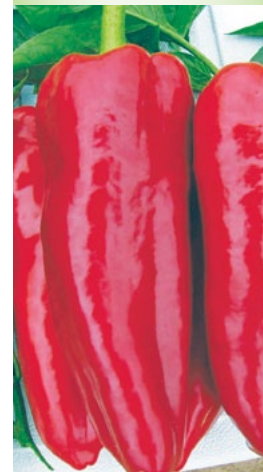
**262Q GIANT MARCONI** 68 days. Extra long 8 x 3 in/20 x 8 cm tapered dark green fruit turn red very early. High yields - used for grilling, roasting and fresh market sales. Tolerant to TMV.



Giant Szegedi



Super Red Pimento



Marcato



Sandpiper





## SWEET BANANA TYPES

Hybrid packets contain 25 seeds; O/P packets contain 100 seeds.

**262R SWEET ARROW** 62 days. F1 hybrid. Longer, earlier, creamier yellow. 8.5 x 2 in/22 x 5 cm.

**262P SUPERETTE SWEET** 60 days. F1 hybrid. Bright yellow fruit 8.5 x 2 in/22 x 5 cm large, long.

**253H SWEET SAVANNAH** 60 days. F1 hybrid. Straighter, pendant 9 in/23 cm yellow banana for processing.

**266L ETHEM** 70 days. F1 hybrid. Tapered jumbo has more refined shoulder and longer, straighter 8 in/20 cm fruit. Excellent yields. Ripens lime yellow/yellow/red.

**253S SOPRON** 70 days. F1 hybrid. Long slim, 8 in/20 cm tapered yellow sweet Hungarian on medium, upright strong plants with BLS 1, 2, 3. Excellent yields.

**262D BISCAYNE** 62 days. Extra long, slim 2-3 lobed, pale lime green fruit, taper to blunt tips. A longer, slimmer 7 in/18 cm cubanelle hybrid type.

**262H KEY WEST (X3R)** 70 days. F1 hybrid. Long lime green cubanelle matures red. Tolerant to BLS-1,2,3.

**253 SWEET BANANA (Yellow Hungarian)** 75 days. Tapered 6 in/15 cm fruit for bedding plants. O/P

**252A CUBANELLE** 68 days. Smooth, lime green 6 in/15 cm tapered fruit with blunt tips. O/P

## SALSA HOTS - OPEN POLLINATED

**266 HUNGARIAN YELLOW WAX HOT** 60 days. Medium hot 6-6.5 in/15-17 cm in length. Yellow tapered fruit ripen green/yellow/red. Medium hot.

**265B HOT PORTUGAL** 64 days. Fiery hot, 6 in/15 cm long, tapered, glossy scarlet fruit.

**264T CHILE GRANDÉ** 60 days. Large tapered chili. 3 in/8 cm long, smooth and very hot. Exclusive.

**264 CRIMSON HOT** 60 days. Early Ancho waxy crimson, 6½ in/16 cm triangular fruit. Medium hot.

**265C RING OF FIRE** 60 days. An early, short, smooth, Cayenne type. Very hot; 4 in/10 cm long. Exclusive.

**264A LONG RED CAYENNE** 75 days. Thin tapered fiery hot standard, 5¾ in/14 cm curved fruit.

**264B JALAPENO M** 70 days. Dark green, 3.5 in/9 cm long, 1.5 in/4 cm bullet shaped fruit mature red.

## HYBRID SEMI HOTS

**UT261R SWEET HEAT** 56 days. Small 3 x 1.5 in/8 x 4 cm sweet bell, mildly spicy tasting, like pepperoncini. For grilling or salsa. (0 sc) Untreated seed.

**254X DULCE** 70 days. Pungency (scoville) is almost zero. Dark green Mitla shaped fruit mature red. Developed for jalapeno flavor in milder salsas. Thick fruit average 3.25 x 1.25 in/8.5 x 3 cm. PVY tolerant.

**UT254Y CAJUN BELLE** 60 days. (24 in/60 cm) Small 2-3 in/5-7.5 cm tapered bell peppers are mildly spicy - just for fresh eating or salsa. (100sc) Untreated seed.

## HOT HABANERO TYPES

**263A REY PAKAL** 84 days. F1 hybrid. Fruit size is slightly larger 2.5 x 1.5 in/8 x 4 cm and not quite as hot (200,000sc) but are 2 weeks earlier than O/PS.

**263H HABANERO ORANGE** 95 days. 36 in/91 cm plants, tapered lantern shaped 1-1.5 in/2.5-4 cm pods. Wrinkled light-green flesh ripens to golden-orange. 200,000 scoville heat units.

## HYBRID HOT PEPPERS

**264S SUPER HUNGARIAN HOT** 58 days. F1 hybrid. Extra early, 8 in/20 cm tapered Banana. Ripens light green/yellow/red. VERY hot. (6000sc)

**264N INFERNO** 65 days. A productive hot Banana. Sloping shoulders, medium green, slim tapered smooth 8 in/20 cm fruit. Ripens yellow/red. (4000sc)

**263R RIO DE ORO** 65 days. Best large gold to red Santa Fe type averages 3.5 x 2 in/9 x 5 cm conical shape, thick walls. TMV tolerant. (700sc)

**266R CHEYENNE** 65 days. High yields of Cayenne fruit on compact plants. Similar to O/P cayennes. (4000sc)

**266A MESILLA** 70 days. Big Cayenne 10 x 1.5 in/25 x 4 cm wrinkled, slim, light green fruit mature red. Tolerant to TMV; TEV and PVY. Med. Hot (4000sc).

**266X BIG BOMB** 67 days. Large 2 x 2 in/5 x 5 cm globe shaped hot Cherry. Good yields. (5000sc)

**UT265G GHOST CHILE** 100 days. Certified as one of the "World's Hottest Peppers" originated in Assam, India with a Scoville heat rate at over 1,000,000 units. Handle seeds and fruits with extreme caution (gloves if possible). Fresh market chiles are extremely hot and must be sold in cardboard trays covered in plastic, to protect children.

**266U TAJIN** 68 days. 4 x 1.5 in/10 x 4 cm medium dark green Jalapeno. Concentrated sets. (8000sc)

**266N EL JEFE** 70 days. High quality, dark green Jalapeno fruit has thick wall, Tolerant to BLS 1,2,3 and PVY. Matures dark green to red. (5000sc)

**264X CHICHIMECA** 70 days. Large Jalapeno. 3.75 x 1.5 in/10 x 4 cm; 1.25 oz/36 g. Tolerant to PVY. (3300sc)

**265M MAJOR LEAGUE** 70 days. Extra long cylindrical 3.75 x 1.25 in/10 x 3 cm dark green to red Jalapeno for processing or nacho slices. PVY and TMV tolerant. (1000sc)

**264Z HUIZACHE** 71 days. Large dark green two lobed Ancho turns dark red for Chili rollenos. TMV tolerant. (1000sc)

**266V ABEDUL** 74 days. Dark, glossy green, 2 lobed large Anchos mature red for Chili rollenos. Tolerant to TMV. (1000sc)

**266T COMPADRE** 75 days. Uniform, deep, bullet shaped Jalapeno similar to Sayula. Good tolerances to PVY, TMV, and anthocyanin (black streaks). (5000sc)

**265E CAYENNETTA** 85-90 days. Mildly spicy chili hybrid 3-4 in/7.5-10 cm pendant fruit provide high yields. Use for hanging baskets or patio containers. AAS Winner. (20,000 sc)

NEW	SWEET PEPPERS		Pkt	oz	¼ lb	lb.					
	Bananas & Cubanelles			28 g	113 g	454 g					
	252A	Cubanelle	2.70	13.25	28.45	93.05					
	253	Sweet Banana	2.70	10.30	23.05	75.45					
	BANANA & CUBANELLE HYBRIDS (M = 1,000 seeds)		Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M			
	253H	Sweet Savannah	5.85	19.55	43.47	38.32	35.02	29.05			
✓	253S	Sopron	6.35	31.35	69.68	61.43	56.14	47.89			
	262D	Biscayne	4.80	27.95	62.08	54.72	50.02	41.48			
	262H	Key West (X3R)	5.85	43.60	96.82	85.34	78.00	64.70			
	262P	Superette Sweet	4.20	19.55	43.47	38.32	35.02	29.05			
	262R	Sweet Arrow	4.20	19.55	43.47	38.32	35.02	29.05			
	266L	Ethem	5.85	33.45	74.25	65.46	59.82	49.62			
	HYBRID HOT PEPPERS (M = 1,000 seeds)		Scoville Rating	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M		
	254X	Dulce	0	6.35	38.20	84.85	66.35	60.32	58.31		
	UT254Y	Cajun Belle	100	6.35	48.40	107.51	94.77	86.62	84.07		
	UT261R	Sweet Heat	0	6.35	48.40	107.51	94.77	89.17	84.07		
	263A	Rey Pakal	200,000	6.35	46.45	103.17	90.94	83.12	68.94		
	263R	Rio de Oro	700	6.35	39.75	88.34	77.87	71.18	59.03		
	264N	Inferno	4000	6.35	31.45	69.81	61.54	56.25	46.65		
	264X	Chichimeca	3300	6.35	28.30	62.88	55.43	50.66	42.02		
	264Z	Huizache	1000	6.35	34.05	75.57	66.61	60.88	50.50		
	265E	Cayenetta	20,000	6.35	79.30	176.16	155.29	141.93	125.23		
✓	UT265G	Ghost Chile	1,000,000	6.35	58.70	130.40	114.95	105.06	98.88		
	265M	Major League	1000	6.35	36.40	80.82	71.24	65.11	54.00		
	266A	Mesilla	4000	6.35	34.30	76.15	67.13	61.35	50.89		
	266N	El Jefe	5000	5.85	23.00	51.12	45.06	41.18	34.16		
	266R	Cheyenne	4000	6.35	32.60	72.42	63.84	58.34	51.48		
	266T	Compadre	5000	6.35	32.65	72.52	63.93	58.43	48.46		
	266U	Tajin	8000	6.35	32.90	73.13	57.18	51.99	51.29		
	266V	Abedul	1000	6.35	34.75	77.15	60.33	54.85	54.12		
	266X	Big Bomb	5000	6.35	41.80	92.83	72.59	65.99	65.11		
	HOT PEPPERS		Scoville Rating	Pkt	1/16 oz 2 g	1/4 oz 7 g	½ oz 14 g	oz 28 g	¼ lb 113 g	lb 454 g	
	264S	Super Hungarian Hot (Hyb)	6000	5.30	19.95	45.40	84.40	150.45	420.75	1,448.20	
	266	Hungarian Yellow Wax Hot	2000	2.70			9.90	14.55	32.65	106.70	
	263H	Habanero Orange	200,000	3.20			18.40	27.05	60.60	198.15	
	264	Crimson Hot	2000	2.70			17.00	24.95	55.95	182.95	
	264A	Long Red Cayenne	4000	2.70			5.40	7.90	17.70	57.95	
	264B	Jalapeno M	6000	2.70			8.75	12.50	27.95	91.45	
	264T	Chilé Grandé	5000	2.70			17.00	24.95	55.95	182.95	
	265B	Hot Portugal	5000	2.70			14.15	20.80	46.60	152.45	
	265C	Ring of Fire	6000	2.70			16.30	23.90	53.60	175.30	





Red Jewel



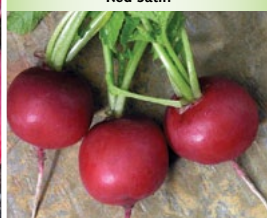
Red Satin



Cherriette



Sparkler



Crunchy Royale



Champion



Rutabaga - Laurentian



White Icicle



Minowase

## RADISH

Radishes are a quick growing, cool-season crop that provides a quality root shape and proper top length at growing temperatures of 50-60°F/10-18°C, during shorter day lengths. THE GROWERS CHOICE of variety and sowing date for his region, his spacing of seed and the supply of adequate moisture at the proper time WILL control the shape of the root and the length of the top! Globe shapes like Cherry Belle can be manipulated to produce rounder roots and longer tops in greenhouse conditions. When growth is checked by bad weather or grower mistakes with seeding, fertilizer, chemicals, or hot weather yields are forced under long daylength (15 hrs.) - plants WILL bolt to seed, tops WILL get long and roots WILL become misshapened, crack, rough, colorless, hot, pithy and unsaleable. Rounder roots and shorter tops are controlled by short or medium short days, cool harvest conditions and sandy soil pH of 6.5 to 6.8 or muck soils with a pH of 5.5 - 6.0. CELLO BAGS: We list various varieties for different purposes. Some will turn purple if they are packed in air-tight cello bags. Growers should carefully choose their variety for this use. Some varieties will bleed or lose color when washed, after stress. SIZED SEED: Commercial varieties are precision sized. CULTURE: A pkt. sows 40 ft/12 m of row; oz/28 g about 200 ft/61 m; 10-15 lbs/4.5-7 kg per acre @ 40,000 seeds per lb/454 g (approx. 10 oz per 1,000 ft). Sow Champion, Cherry Belle and hybrids - early in the season, as soon as you can get on the land. Plant in rows 6-8 in/15-20 cm apart, .5 in/13 mm deep at 2 seeds per in/25 mm. Thin to 1.5 in/4 cm apart. Seed requires 5 days at 40-70°F/4-21°C to germ. Longer types like French Breakfast or White Icicle and the Oriental types can be used for hot weather, long day, mid summer harvests when round types cannot be used.

### MAIN SEASON HYBRID

**274U RED JEWEL** 22 days. F1 hybrid. Medium sized round red with excellent snow white interiors, thick skin and short 8 in/20 cm tops. Use for bunching, cellos and slicing. Intermediate tolerances for Fusarium and DM.

### OPEN POLLINATED VARIETIES

**273A CHAMPION** 20 days. Vigorous, large tops, radishes are bright red, round - silver dollar size. The standard large round type, used in spring or fall.

**274 CHERRY BELLE** 24 days. Excellent for bunching and cello packaging. Has a shorter top than Comet.

**275 COMET** 25 days. For main crop or mid-summer. The flesh will stay firm and crisp in late spring when other varieties become pithy. Comet is round in shape.

NEW	HYBRID RADISH (M = 1,000 seeds)		# seeds per pkt	Pkt	1,000 seeds	5 M per M	25 M per M	100 M per M	500 M per M	
	271C	Cherriette		N/A	3.64	1.67	1.15	1.05	0.96	
	274D	Crunchy Royale		N/A	3.64	1.67	1.15	1.05	0.96	
	274H	Red Satin		N/A	4.13	1.89	1.31	1.19	1.09	
	274K	Fireball		N/A	3.64	1.67	1.15	1.05	0.96	
	274P	White Gem (Novelty Bicolor)	100	2.45	7.55	3.40	2.35	2.14	1.95	
	274U	Red Jewel		N/A	4.22	1.93	1.34	1.22	1.11	
	278F	April Cross	100	4.25	31.07	14.24	10.10	8.85	7.77	
	RADISH		# seeds per pkt	Pkt	oz	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb
	273A	Champion	600	2.70	5.95	7.85	13.60	11.25	10.25	9.23
	274	Cherry Belle	600	2.70	6.75	8.20	14.20	11.80	10.72	9.65
	275	Comet	600	3.00	6.65	8.90	15.45	12.80	11.65	10.49
	276	French Breakfast	600	2.15	2.85	3.85	6.65	5.55	5.03	
	277	Valentine	600	4.25	12.05	38.90	101.50	84.25	81.48	
	277B	Sparkler	600	2.15	2.95	3.95	6.80	5.65	5.13	
	278C	Minowase Summer Cross #3 Hyb.	100	4.05	20.40	62.40	167.70	146.25	144.29	
	280	White Icicle	600	3.20	7.45	10.00	17.30	14.35	13.05	
	282	Round Black Spanish	600	2.15	3.15	4.00	6.90	5.75		
	422D	Everest Lo Bok Hybrid	100	3.00	16.00	54.40	131.00	115.40	111.03	
	RUTABAGA Swede Turnip		# seeds per pkt	Pkt	oz	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb
	370	The Laurentian	1000	3.75	20.85	45.15	55.75	41.90	33.86	
	371	The Laurentian Certified		N/A	N/A	N/A	55.75	41.90	33.86	28.57
	370A	American Purple Top	1000	3.20	14.25	30.90	38.15		23.16	

## ORIENTAL RADISHES

**278C MINOWASE SUMMER CROSS #3 Hyb.** (Japanese Daikon) 50 days. F1 hybrid. Best variety for fall harvests. Long 16 in/40 cm, tapered 2.5 in/5.25 cm thick, crisp, pure white roots have white necks, medium/tall tops. Pungent/hot taste. Tolerant to Mosaic, Fusarium and heat.

**422D EVEREST** (Chinese Lo Bok) 55 days. F1 hybrid. High quality, short, smooth, thick white roots average 9-12 in/23-31 cm long and 2.25 in/5.5 cm wide with semi tapered tips. Very sweet tasting root when cooked.

**278F APRIL CROSS** (Japanese Daikon) 60 days. F1 hybrid. Very slow bolting popular variety for late spring or late summer harvests. Long 16 in/40 cm, 2.5 in/5.25 cm thick pure white roots with white necks. Tolerant to pithiness, excellent for cooking and pickling.

**280 WHITE ICICLE** 30 days. A uniform short top strain which forms long 6 in/15 cm roots, very quickly. Clear snow white roots. Grow like carrots. O/P

## NOVELTY RADISHES

**277 VALENTINE** 25 days. A novelty, round, green and white radish for salads. Interiors are red at maturity.

**277B SPARKLER** 25 days. Round, red and white medium tops.

**276 FRENCH BREAKFAST** 25 days. Medium length scarlet roots with a white tip.

**274P WHITE GEM** 65 days. Bicolor green and white Oriental radish with excellent taste. Tolerant to Club Root plus tolerances to DM and Virus. For fall harvests. Non pithy type. White flesh.

**282 ROUND BLACK SPANISH** 55 days.

## RUTABAGA (SWEDE TURNIP)

CULTURE: 1 pkt. sows 75 ft/23 m of row thinly - 3 seeds per in/25 mm. 1 oz/28 g 250 ft/76 m of row, .5 lb/227 g per acre. For early yields sow .25 in/6 mm deep in early spring and .5 in/13 mm deep for main season crops. Space rows 2-3 ft/61-91 cm apart. Thin plants to 6 or 8 in/15 or 20 cm apart, when 3 in/8 cm high. Harvest just after your first frost. Store like potatoes - wax for storage. Seed is precision sized.

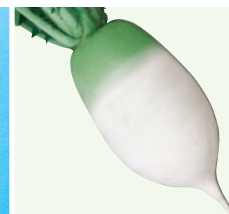
**370 THE LAURENTIAN** 90 days. The most popular swede turnip or rutabaga grown today. Laurentian has a deep purplish top and smooth root, yellow flesh.

**371 THE LAURENTIAN CERTIFIED** 90 days. This strain is grown and packaged in 1 lb packages only, under the Canadian Department of Agriculture supervision.

**370A AMERICAN PURPLE TOP** 90 days. Standard high yielding North American rutabaga for winter storage. Large top shaped roots are purple above ground and light yellow below. Average 6 in/15 cm, and are mild tasting. Dark green tops are edible.



Valentine



White Gem





Apollo & Moonshine



Super Herc



Gladiator



Magic Wand



Magic Lantern

## HYBRID PUMPKIN

**CULTURE:** Seed size varies, regular hybrids and O/P's average 150-200 seeds per oz/28 gr; 3 lbs/1 kg per acre. Mini pumpkins average 10 seeds per pkt; 400 seeds per oz/28 g; 1.5 lbs/.5 kg per acre. Large seeded types (Atlantic Giant, Prizewinner) average 5 seeds per pkt; 60-90 seeds per oz/28 g; 5 lbs/2 kg per acre. Sizes and weights are based on our trial reports only, and may vary according to your area and weather conditions. Sow May or early June to harvest before frost. **NOTE:** If you have wet, cold, clay, loam soil - germinating ANY pumpkin or squash seed can be a frustrating experience. If you face these conditions, make sure the seed is treated with a fungicide - and wait until the soil warms up in June. **"F" prefixed seed contains the class ingredient neonicotinoids.**

**DIRECT SEEDING:** Sow in late spring after the danger of frost and when the soil begins to warm up. If you use treated seeds - minimum soil temperature is about 62 F/17 C and slightly higher for untreated seeds 70 F/21 C. Keep rows 6 ft/2 m apart for smaller fruit and 12 ft/4 m apart for larger pumpkins. Plant seeds .5 in/1.25 cm deep. Thin to 1 plant. **TRANSPANT:** Many smaller growers prefer transplants in short season areas. This may cause a shift in harvest date of 15 days earlier. Harvest date of 15 days earlier in the fall. After frost danger, move transplants outdoors, to harden them off for 4-8 days. Do not cultivate too deep - it will disturb fragile root systems. **STORAGE:** Store pumpkins @ 50-55 F/10-13 C and less than 70% humidity with proper air circulation.

## POWDERY MILDEW TOLERANT VARIETIES

The following varieties have intermediate tolerance to PM. For smaller PM pumpkins, see page 48.

**NEW**

**246B COUGAR PMR** 65 days from transplants. F1 hybrid. Similar in shape and size to Neon plus a good tolerance to powdery mildew. Fruit are nicely ribbed, 10-12 lbs/4.5-5.5 kg, have great orange color and a sturdy dark green handles - 80 days direct.

**247E HANNIBAL** 85 days. Jack-O-Lantern shaped Halloween pumpkin has good handles, distinct ribs, and weighs 20 lb/9 kg. Some PM tolerance.

**248T GARGOYLE** 96 days. Non-carving type for painting. Distinctive, occasional warts. Round 3-5 lb/1.5-2.3 kg fruit.

**F247Q APOLLO** 100 days. Large 14x12 in/36x30 cm dark orange 18-32 lb/8-14 kg globe shaped pumpkin. Excellent handles, medium ribbing.

**F249Q MAGIC WAND** 100 days. Very uniform, 15-24 lb/5-11 kg dark orange pumpkin. Ribbed flat, round shape. Large firm handle.

**F249S MAGIC LANTERN** 100 days. Popular dark orange, 16-24 lbs/6.5-11 kg.

**248J ALADDIN** 100 days. Tall shape, 20-30 lbs/9-14 kg with large firm handles.

**247N ORANGE RAVE** 100 days. Dark orange colored 20 lb/9 kg globe shaped, moderately ribbed fruit. Strong handle.

**F248N SUPER HERC** 100 days. Tall or deep shape 25-35 lb/11-16 kg fruit have strong handles. Good yields.

**F248Y WARLOCK** 100 days. 20-30 lb/9-14 kg. Large handle. Slightly warted dark orange skin.

**F248S GLADIATOR** 100 days. Excellent color, good yields, vigorous plant. Fruit average 20-30 lb/9-14 kg. Strong handles. For roadside stands. Patented Variety.

NEW	HYBRID PUMPKIN (M=1,000 seeds)	# seeds per pkt	Pkt	500 seeds	1,000 seeds	5 M per M	30 M per M	60 M per M	90 M per M
✓	246B Cougar PMR (PM)	10	3.50	89.65	124.98	92.29	87.01	79.63	76.47
	247E Hannibal (PM)	10	3.50	57.80	80.56	57.78	54.38	51.32	49.29
	247N Orange Rave (PM)	10	4.70	65.15	83.39	75.81	72.02	69.17	65.86
	F247N Orange Rave (PM)	10	4.70	65.15	83.39	75.81	72.02	69.17	65.86
	F247Q Apollo (PM)	10	4.70	80.90	103.52	94.11	89.41	85.88	
	248J Aladdin (PM)	10	4.70	78.25	100.18	91.07	86.52	83.10	
	F248J Aladdin (PM)	10	4.70	78.25	100.18	91.07	86.52	83.10	
	F248N Super Herc (PM)	10	4.70	70.50	90.24	82.04	77.93	74.86	
	F248S Gladiator (PM)	10	4.70	81.40	104.18	94.71	89.97	86.42	
	248T Gargoyle (PM)	10	4.70	68.40	87.56	75.62	72.63	70.64	
	F249Q Magic Wand (PM)	10	4.70	78.50	100.51	91.37	86.80	83.37	
	F249S Magic Lantern (PM)	10	4.70	62.65	80.17	72.88	69.24	66.50	
	F248Y Warlock (PM)	10	4.70	81.25	103.99	94.54	89.81	86.27	

Due to  
supplier  
restrictions  
these  
varieties  
are not  
available  
in NY, PA,  
ME, MA,  
NH, VT,  
RI, CT

## WHITE PUMPKINS

**248U NEW MOON** 85 days. Large round 16 in/35 cm; 35-75 lbs/16-35 kg white skin, white flesh type. Vines are vigorous. Pkt. (5 seeds) \$9.60; 100 seeds \$42.80; 500 seeds \$142.00; 1,000 seeds \$220.86; 5,000 seeds @ \$198.32 per M; 25,000 seeds @ \$185.93 per M.

**248D LUMINA** 100 days. Medium size white. Shape and size vary from globe to flat globe and 8-10 in/20-25 cm, 10-15 lbs/4-5 kg. Flesh is bright orange. Pkt. (10 seeds) \$2.95; oz. \$20.05; 1/4 lb. \$44.65; lb. \$126.30; 5 lb. @ \$104.05 per M; 25 lb. @ \$89.02 per M.

**249Y MOONSHINE** 110 days. F1 hybrid. Very uniform 8-12 lb/3.6-5.5 kg fruit with slightly ribbed smooth exteriors and very strong, dark green firmly attached handles, average 10 fruit per plant and long vines. Pkt. (10 seeds) \$5.65; 500 seeds \$57.80; 1,000 seeds \$80.56; 5,000 seeds @ \$59.48 per M; 25,000 seeds @ \$56.08 per M.



New Moon



Orange Rave



Lumina



Aladdin



Hannibal





Prizewinner



Atlantic Giant



Knucklehead



Jack of All Trades

## HYBRID PUMPKINS

**249L JACK OF ALL TRADES** 95 days. Semi-bush, VERY uniform, 15-20 lbs/7-9 kg, bright orange, shallow rib storage/shipping type, large dark green stem.

**247X MRS. WRINKLES** 100 days. Deep wrinkled ribs, burnt orange color 14-18 lbs/6-6.8 kg, strong handles.

**249P TRICKSTER** 90 days. F1 hybrid. Compact, semi bush plant. Deep orange, smooth 3 lbs/1.5 kg, 5 in/12 cm diameter fruit. Dark green handles.

## HYBRID WARTED PUMPKINS

**247T GOOSEBUMPS II** 95 days. F1 hybrid. Medium sized heavily globe shaped 8-12 lbs/3.5-5.5 kg bright orange warted pumpkins have slim green handles. Use for unique fall sales. Popular size with kids - creepy scary fruit. For prices see page 48.

**247S KNUCKLEHEAD** 110 days. F1 hybrid. Heavily warted large tall dark orange 12-16 lbs/5.5-7 kg Jack-O-Lantern shaped pumpkins with strong dark green handles. Carve warted, freaky creatures.

## OPEN POLLINATED VARIETIES

**249 CONNECTICUT FIELD** 115 days. Standard O/P general purpose or Halloween pumpkin. Hard, smooth, somewhat ribbed, deep orange. 15-25 lbs/7-11 kg.

**247H HOWDEN** 115 days. Tolerant to Black Rot, fruit are uniform. 25 lbs/11 kg fruit has hard, ridged orange skin. Deep round shape. Solid thick flesh, stores well.

**F249U HOWDEN BIGGIE** 115 days. About 30% larger than Howden. 35-50 lb/16-23 kg, deep shape. **PVP** Patented Variety. For prices see page 48.

**248S SMALL SUGAR** 115 days. Convenient size for household use, averages 7 lbs/3 kg each. Deep orange flesh.

**248L FAIRYTALE** 110 days. Unique oak color at maturity - looks like a wood carving! Large, flat 15 x 6 in/38 x 15 cm, 15 lbs/5 kg. Stores for 3 months.

**247U ROUGE VIF D'ETEMPE** 110 days. Flat shape, scarlet skin, 10-15 lbs/4.6-5 kg for pies. O/P

## GIANT PUMPKINS

**246A BIG MOOSE** 110 days. Bright orange 50-125 lbs/22-57 kg. A Smaller version of the Prizewinner type with slight ribs and a vigorous vine. Designed for roadside sales and fairs.

**248Z FULL MOON** 120 days. Giant O/P white averages 60-90 lb/27-40 kg at maturity. For color, harvest early. **PVP**

**249C DILL'S ATLANTIC GIANT** 120 days. For World Record Pumpkin contests. Seed from O/P line that produced 600 lb/272 kg champions. 90 seeds per oz.

## HYBRID GIANT PUMPKIN

**249F PRIZEWINNER** 120 days. F1 hybrid reddish orange fruit mature up to 100 lbs/45 kg.

**F** FarMore™ Treated Seed

NEW	PUMPKIN		# seeds per pkt	Pkt	½ oz	oz	¼ lb	lb	5 lb@ per lb	25 lb @ per lb		
	247H	Howden O/P	25	2.45		6.20	13.75	38.95	32.05	27.44		
	248	Small Sugar O/P	25	2.45		5.10	11.10	24.05	17.45	14.40		
	249	Connecticut Field O/P	25	2.45		5.75	12.50	27.05	20.65	16.20		
	249C	Dill's Atlantic Giant	10	5.55	14.85	20.60	45.90	129.80	106.90	95.17		
	PUMPKIN (M=1,000 seeds)		# seeds per pkt	Pkt	100 seeds	250 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	50 M per M	100 M per M
✓	246A	Big Moose O/P	5	9.60	60.65		201.15	312.91	255.44	247.46		
✓	247S	Knucklehead Hybrid	10	3.50			62.15	86.66	62.16	58.50	55.21	53.02
	247U	Rouge Vif d'Etampes O/P	10	3.50			57.15	79.70	58.85	55.49	50.78	48.76
	247X	Mrs. Wrinkles Hybrid	10	3.50			68.05	94.89	70.06	66.06	60.45	58.05
	248L	Fairytale O/P	10	3.50			55.15	76.88	56.77	53.52	48.98	47.04
	248Z	Full Moon O/P	10	9.60	37.75		125.25	194.81	174.94	164.00	150.09	144.12
	249F	Prizewinner Hybrid	5	9.60	97.20	194.45	322.35	501.43	409.33	388.86		
	249L	Jack of All Trades Hybrid	25	3.50			35.55	49.55	36.59	34.50	31.57	30.32
	249P	Trickster Hybrid	10	3.00			38.90	54.27	40.07	35.72	33.43	31.83



Little Giant (see pg 48)



Cannonball (see pg 48)



Field Trip (see pg 48)



Mystic Plus (see pg 48)



Big Moose



Howden



Howden Biggie



Goosebumps II



Fairytale





Jack Sprat



Hijinks



Lunch Lady



Crunchkin



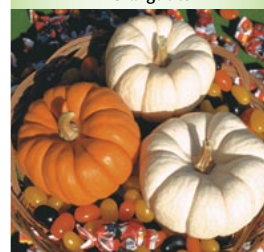
Lil' Pump-Ke-Mon



Lil' Orange Mon



Autumn Wings



Jack Be Little & Baby Boo



Koshare Yellow



Daisy Mix



Small Gourds Mixed



Mini Red Turban



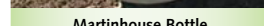
Galaxy of Stars



Miniature Bottle



Speckled Swan



Martinhouse Bottle

## ORNAMENTAL & NOVELTY PUMPKINS

**F247M CRUNCHKIN** 85 days. Excellent, early ornamental hard shell type with improved shipping durability and extended storage capability. Trim long stems for easier packing.

**249X LIL' ORANGE MON** 90 days. 1.25 lb/.5 kg dark orange bicolor with long handle. Deeply ribbed flat shape, unique dark orange color, light orange top.

**F248H LIL' PUMP-KE-MON** 90 days. 4.5 in/11 cm unique, white mini with orange stripes. 1-2 lb/454-900 g. Tolerance: Phytophthora. Ideal companion for Lil' Orange Mon.

**248C BABY BOO** 95 days. Creamy white version of Jack Be Little. Fruit average 2-3 in/5-8 cm wide, white flesh, store for 12-16 months. Approx. 400 seeds per oz/28 g. **pvp** Pkt. (10 seeds) \$2.70; 1/2 oz \$11.95; oz \$15.60; 1/4 lb \$34.70; lb \$98.20; 5 lb. @ \$80.90 per lb.

**248E JACK BE LITTLE** 95 days. Standard, dark mini orange (2 x 3 in/5 x 8 cm) distinct ribs. Susceptible to Summer Squash Mosaic. Stores 6-8 months. Pkt. (10 seeds) \$3.00; 1/2 oz \$10.40; oz \$14.40; 1/4 lb \$32.10; lb \$90.85.

## PUMPKINS FOR CHILDREN

**F247R LITTLE GIANT** 95 days. Small 2-4 lbs/1-2 kg round 5-6 in/13-15 cm small pie type, dark orange color, long green handles. Semi-vine plant habit is perfect for small gardens and commercial cultivating. High yield. Ideal for school field tours. Patented Variety.

**248P IRON MAN** 90 days. Small 3 lb/1.5 kg round, hard shell fruit. Strong, green handles. Easy for kids to carry. Tolerance: Powdery Mildew, Fusarium, Phytophthora

**F248V CANNON BALL** 90 days. Small round 5 lb/2-3 kg dark orange thick handled fruit. Tolerance: Powdery Mildew

**F248X FIELD TRIP** 95 days. The slim long green handle is distinctive and strong. Weighing only 5-7 lb/2.3-3 kg, it is easily carried from the pumpkin patch. Uniform ribbed, flat shape, deep orange color. Tolerance: Powdery Mildew

**247V HIJINKS** 90 days. Very uniform blocky shape with medium deep ribbing. Fruit are bright orange, average 7 lbs/3.25 kg, and have very long dark green handles.

**F248G MYSTIC PLUS** 90 days. Medium size 5-7 lb/2.3-3 kg dark orange fruit. Thick handles will not break.

**F247Y JACK SPRAT** 95 day. F1 hybrid. Medium dark orange 3-4 lbs/1-2 kg, 6x6 in/15x15 cm uniform fruit with rounded shoulders, slight ribs, long handles. Replaces Trickster.

**F FarMore™ Treated Seed**

NEW	PUMPKIN (M = 1,000 seeds)	# seeds per pkt	Pkt	500 seeds	1,000 seeds	5 M per M	30 M per M	60 M per M	90 M per M
	F247M Crunchkin Hybrid	10	4.70	68.20	87.30	79.37	75.40	72.42	
	F247R Little Giant Hybrid	10	4.70	69.45	88.90	80.81	76.77	73.74	
	F248G Mystic Plus Hybrid	10	4.70	61.20	78.36	71.24	67.67	65.00	
	F248H Lil' Pump-ke-mon	10	4.70	68.95	88.26	80.23	76.22	73.21	
	248P Iron Man (PM) Hybrid	10	4.70	65.80	84.23	76.57	72.75	69.87	
	F248P Iron Man (PM) Hybrid	10	4.70	65.80	84.23	76.57	72.75	69.87	
	F248V Cannon Ball (PM) Hybrid	10	4.70	64.15	82.10	74.64	70.90	68.10	
	F248X Field Trip (PM) Hybrid	10	4.70	68.30	87.40	79.45	75.48	72.50	
	F249U Howden Biggie (PM) Hybrid	10	4.70	67.50	86.38	78.53	74.60	71.66	
	249X Lil' Orange Mon	10	4.70	72.55	92.84	84.40	80.18	77.01	
	F249X Lil' Orange Mon	10	4.70	72.55	92.84	84.40	80.18	77.01	
✓	247T Goosebumps II Hybrid	10	4.70	62.15	86.66	63.99	60.33	55.21	53.02
	247V Hijinks Hybrid	10	4.70	62.35	86.93	64.19	60.52	55.38	53.18
✓	F247Y Jack Sprat (PM) Hybrid	10	4.70	50.50	64.66	58.78	55.84	53.64	51.07

Due to  
supplier  
restrictions  
these  
varieties  
are not  
available  
in NY, PA,  
ME, MA,  
NH, VT,  
RI, CT

## ORNAMENTAL GOURDS

CULTURE: Seeds size varies: small at 5,000-5,500 seeds per lb; large at 2,200-2,500 seeds per lb. Sow indoors Apr.15th; or outdoors June 10th, .25-.5 in/6-13 mm. deep depending on seed size. Space in rows or trellis vines on fence for straighter, cleaner fruit. Must be harvested a few days before first fall frost. In short season areas, commercial growers should use a row cover to extend the season and protect late maturing fruit from frost damage. Gourds are not edible.

## SMALL GOURDS

**951A Maranka** Ridged like a turtle, long curved neck  
**952E Orange Ball** **952K Miniature Bottle**  
**952F White Egg** **952J Bicolor Pear**  
**952P Spoon** Small green/yellow ball with long handle  
**952Q Striped Crown of Thorns** Multicolored/striped  
**952X Orange Warted** **952Y Mini Red Turban**  
Prices of above: Pkt. \$2.70; 1/4 oz. \$7.55; oz. \$14.00; 1/4 lb. \$36.40; lb. \$104.45; 5 lb. @ \$92.10 per lb.

**951K Koshare Yellow** Gold/dark blue-green. Limited.  
**951V Goblin Eggs Mix** A variety of colors and bicolors.  
**951Y Daisy Mix** Novel shapes and colors.

Prices of above three: Pkt. (25 seeds) \$5.10; 250 seeds \$31.10; 1,000 seeds \$76.85; 5,000 seeds & over @ \$71.53 per M.

**951S Galaxy of Stars** F1 hybrid. Mix of star shaped fruit in various striped colors and bicolor patterns. Pkt. (25 seeds) \$5.85; 250 seeds \$41.15; 1,000 seeds \$101.72.

**951G Autumn Wings Small** Unique 4 in/10 cm neck.  
**951H Autumn Wings Medium** Unique 6 in/15 cm neck.  
**951L Autumn Wings Large** Unique 12 in/30 cm neck.  
Prices of above three: Pkt. (25 seeds) \$5.20; 1/4 oz. \$12.75; oz. \$23.75; 1/4 lb. \$61.80; lb. \$143.55; 5 lbs. \$137.20.

## LARGE GOURDS & MIXES

**951B Giant Bushel** Smooth round, 15 in/35 cm  
**951C Canteen** Wheel shape, 12 x 3 in/30 x 8 cm  
**951D Cuccuzi Italian or Snake** Long and edible  
**951E Speckled Swan** Fully matured huge 18 in/46 cm long with 8 in/20 cm base. Thin to one fruit.  
**951R Martinhouse Bottle** **951Q Blister**  
**952R Giant Bottle or Water Jug** Hourglass shape  
**952S Cave Man's Club** Smooth long handled club  
**952T Penguin** Powder Horn  
**952V Birdhouse** Water dipper or birdhouse  
**952W Large Turk's Turban** Large striped turban  
**952Z Long Handled Dipper** Hollow handle 10 in/25 cm ball  
**952 Large and Small Mix** 75% small/25% large  
**952A Large Gourd Mixture** Formula blend  
**952B Small Gourds Mixed** Formula blend of all types  
**952C Small Warted Hybrid Blend** A superb warted mix  
**952U Ultra Warted Mix** Elite blend. Bright colors only  
Prices of the above: Pkt. \$2.70; 1/4 oz. \$7.95; oz. \$14.80; 1/4 lb. \$38.50; lb. \$110.45; 5 lb. @ \$97.45 per lb.

**951N Lunch Lady** 110 days. Many shapes, sizes and colors of large hardshell warted types from 5-20 lbs/2-9 kg. Pkt. (25 seeds) \$5.20; 1/4 oz. \$10.95; oz. \$20.35; 1/4 lb. \$52.95; lb. \$123.05.





Unipack 151



Spineless Perfection



Reward



Golden Dawn III



Payroll

## SPINACH

**CULTURE:** 1 oz/28 g (approx. 2000 seeds) will sow 100 ft/31 m of row. Most of the seed we carry in the hybrids is size 7/64 which averages 45,000 seeds per lb/454 g. Sow at a suggested rate of 10-12 lbs/5-5.4 kg (450,000 seeds) per acre. Plan for 12 live plants per foot of row. Space rows 12 in/30 cm apart, with seed .25-.5 in/6-12 mm deep - depending on soil moisture (deeper for dry soil). Spinach likes cool, medium day lengths of 40°F/4°C and 10-12 hours. Longer hotter days cause bolting to seed. Sow in spring or fall - Apr.1st-15th or Aug 15th-Sept 1st, in the Northeast. All our seed is precision graded.

**290 LONGSTANDING BLOOMSDALE DARK GREEN** 48 days. Dark green leaves of this O/P strain are heavily savoyed. For untreated seed, order **UT290**.

**289 NEW ZEALAND** (*Tetragonia expansa*) 55 days. A perennial spinach suitable for home gardens only.

## HYBRID SPINACH

### SEMI SAVOY TYPES

**NEW 286C CROCODILE** 46 days. Main season semi-savoyed oval leaf type with a good tolerance to bolting. Use for spring, summer or fall fresh market or baby leaf production. Tolerant to Downy Mildew strains 1-7, 9, 11, 13. Upright dark green, thick leaf plant, washes easily.

**287S SARDINIA** 44 days. Semi savoy type with dark green round leaf. Nice upright plant with very uniform stems - for baby leaf and processing. Tolerant to DM Races 1-7.

**286A UNIPACK 151** 48 days. Main season semi savoy with dark green leaves, uniform erect plant habit with good heat tolerance and tolerance to DM 1,2,3, and 4. Also for overwinter New Jersey crops.

### PLAIN LEAF TYPES

**286B UNIPACK 12** 48 days. Dark green, slow bolting plain leaf - uniform size and leaf height. High yields. Use for fresh market or processing. DM 1,2,3,4 tolerance.

## SUMMER SQUASH

### NOVELTY TYPE

**297P EIGHT BALL** 40 days. Novelty F1 hybrid, round, dark green, yellow flecks. Tastes great, bush plant.

### YELLOW ZUCCHINI

**298J GOLDEN DELIGHT** 47 days. Deep yellow 7-8 in/18-21 cm zucchini. Open, upright plant with few spines. Easy to harvest for fresh market. Tolerant to WMV2 and ZYMV.

**298H GOLDEN DAWN III** 47 days. Deep golden zucchini 7-8 in/18-21 cm long, cylindrical, blunt ends. For baby vegetable market.

**F298R GOLDEN GLORY** 50 days. Straight, dark yellow 8 in/20 cm cylindrical fruit. Semi spineless, open, dark green plant. WMV, ZMV, PM tolerant.

**298B GOLD RUSH** 52 days. Deep golden yellow 7-8 in/18-21 cm cylindrical, blunt ended fruit are ridged.

### YELLOW STRAIGHT NECK TYPES

**F298D FORTUNE** 39 days. Bright yellow 6-7 in/15-17 cm straight neck. High yields. Precocious gene.

## SUMMER SQUASH

**CULTURE:** 20 seeds per pkt; approx 180-200 seeds per oz/28 g; 6-8 lbs. per acre. **EARLY CROPS:** Sow seed indoors in peat pots or large plastic cells about 3-4 weeks before plants can be set outside Apr.15th-May 1st at 2 seeds per pot. Germinate at 70°F/21°C soil temps. Move young plants outdoors 10 days before field transplanting. **MAIN CROP:** Sow outdoors May 15th-July 4th at 4 seeds per ft/30 cm; .5 in/13 cm deep in rows (thin to 12 in/30 cm apart) at 70°F/21°C soil temps. Seed will NOT sprout in cold, wet soil. **"F" prefixed seed contains the class ingredient neonicotinoids.**

**296R QUIRINAL** 40 days. Medium green, cylindrical slightly tapered fruit have medium gold flecks and average 6-7 in/15-18 cm in length. Open bush plant is easy to pick. Tolerant to ZYMV, WMV and PM.

**296H NOCHE** 42 days. Dark green 7-8 in/18-21 cm fruit. Spineless plant. Some tolerance to WMV, ZYMV.

**F296K PAYCHECK** 43 days. Medium green & flecked 7-8 in/18-21 cm cylindrical fruit. Open plant, less spines. Intermediate ZYMV, WMV, CMV and PM tolerances.

**296G PAYROLL** 44 days. Medium green, flecked 7.5-8.5 in/19-22 cm fruit. Open plant. Reduced spines. Tolerant to PM, WMV2 and ZYMV.

**NEW F296L PAYLOAD** 44 days. Medium darker green, flecked 8 in/21 cm cylindrical fruit. Open plant, less spines. Intermediate ZYMV, WMV, CMV and PM tolerances.

**F296J REWARD** 45 days. 8 in/21 cm. High quality, lightly flecked dark green fruit. Easy to pick open plant. Some ZYMV, WMV, CMV and PM tolerances.

**F296F SPINELESS PERFECTION** 45 days. Has spineless petioles that allow fruit to be twisted off the plant with peduncle intact. Strong upright, open plant, earlier 8 in/20 cm richer green cylindrical fruit with refined flecking. Tolerances to ZYMV; WMV and PM. For untreated seed, order **UT296F**.

**297F SPINELESS BEAUTY** 48 days. Spineless, open plant is easy to pick. Medium green, waxy fruit, lightly flecked, cylindrical shape, 7.5-8 in/18-20 cm long.

**297N SENATOR** 47 days. 7-8 in/18-21 cm cylindrical blunt ended fruit. Mid green with contrasting flecks.

**297A ZUCCHINI SELECT** 47 days. Reselected or improved Classic type. Medium green, well flecked 6-7 in/15-17 cm, straight, blunt tip fruit hold cylindrical shape well.

**298Q BLACK BEAUTY** 60 days. AAS Winner. High yields of straight dark green, smooth zucchini fruit average 8 in/20 cm in length. Bush type plant, edible blossoms. Pkt. (20 seeds) \$2.45; oz \$6.55; 1/4 lb \$10.45; lb \$12.05; 5 lb @ \$10.05 per lb; 25 lb @ \$8.96 per lb



Payload



Eight Ball



Fortune

NEW	SPINACH		oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb per lb		
	289	New Zealand (Perennial)	4.00	6.45	14.30	11.35	10.51	9.46		
	290	Longstanding Bloomsdale	2.95	5.65	12.50	9.95	9.73	8.27		
	HYBRID SPINACH (M = 1,000 seeds)		1,000 seeds	5 M per M	50 M per M	100 M per M	250 M per M	500 M per M	1,000 M per M	5,000 M per M
	286A	Unipack 151	2.80	1.25	1.01	0.87	0.75	0.65	0.56	0.49
	286B	Unipack 12	2.30	0.95	0.77	0.66	0.57	0.49	0.43	0.37
✓	286C	Crocodile	2.18	1.04	0.84	0.72	0.63	0.54	0.47	0.41
	287S	Sardinia	2.90	1.25	1.01	0.87	0.75	0.65	0.56	0.49
	HYBRID SUMMER SQUASH (M = 1,000 seeds)		# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M	500 M per M
	F296F	Spineless Perfection	20	4.05	27.80	81.92	68.94	61.90	53.01	52.26
	296G	Payroll	20	4.05	29.30	86.33	72.66	65.24	55.86	55.08
	F296G	Payroll	20	4.05	29.30	86.33	72.66	65.24	55.86	55.08
	296H	Noche	20	4.05	24.30	71.54	60.21	54.06	46.29	45.64
	F296J	Reward	20	4.05	29.70	87.58	73.71	66.18	56.67	55.88
	F296K	Paycheck	20	4.05	31.00	91.30	76.84	68.99	59.08	58.25
✓	F296L	Payload	20	4.05	35.15	103.62	87.21	78.30	67.05	66.11
	296R	Quirinal	20	4.05	25.75	75.80	63.80	57.28	49.05	48.36
	297A	Zucchini Select	20	4.05	21.75	64.13	53.97	48.46	41.49	40.91
	297F	Spineless Beauty	20	4.05	19.20	56.53	47.57	42.71	36.58	36.06
	F297F	Spineless Beauty	20	4.05	19.20	56.53	47.57	42.71	36.58	36.06
	297N	Senator	20	4.05	18.90	55.67	46.86	42.07	36.02	35.52
	297P	Eight Ball	20	4.05	22.95	67.61	56.90	51.09	43.75	43.13
	298B	Gold Rush	20	4.05	20.25	59.73	50.27	45.14	38.65	38.11
	F298D	Fortune	20	2.80	11.70	34.45	28.99	26.03	22.29	21.98
	298H	Golden Dawn III	20	4.05	19.20	56.53	47.57	42.71	36.58	36.06
	298J	Golden Delight	20	4.05	19.95	58.73	49.43	44.38	38.00	37.47
	F298R	Golden Glory	20	4.05	23.10	68.12	57.33	51.47	44.08	43.46





Autumn Delight



Stripetti



Pinnacle



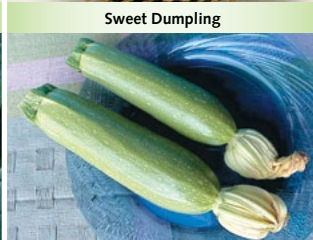
Special Export



Sunny Delight



Sweet Dumpling



Ishtar



Honey Bear



Celebration

## SUMMER SQUASH - SCALLOP TYPES

**297S SUNNY DELIGHT** 43 days. Butter yellow fruit without green blossom scar. Semi bush scallop.

## MIDDLE EASTERN TYPES

**298T ISHTAR** 45 days. F1 hybrid Lebanese type. Pale green 6 in/15 cm cylindrical fruit. WMV and ZYMV tolerances.

**300C CLARITA** 51 days. F1 hybrid middle eastern 6 in/15 cm. Medium dark green cousa type, white flecks.

## NOVELTY SUMMER TYPES

**305 VEGETABLE SPAGHETTI** 70 days. Harvest fruit 8-10 in/20-25 cm long. Cut in half end to end, remove seeds, add tsp. brown sugar and tbsp. butter, microwave or cook till tender. Spaghetti-like pulp. 3,400 seeds per lb. For untreated seed, order **UT305**.

**305G TIVOLI** 74 days. F1 hybrid 6 in/15 cm bush type vegetable spaghetti. AAS Winner.

**302Q PINNACLE** 85 days. F1 hybrid. Has a more compact semi-bush plant than other vegetable spaghetti types. This allows for higher plant populations and higher yields. Fruit are oval, 7 x 5 in/18 x 13 cm, 3 lbs/1.5 kg, yellow in color. Internal quality is excellent - strands are very fine and have a nutty flavor.

**307A STRIPETTI** 95 days. F1 hybrid cross between Sweet Potato and Vegetable Spaghetti. The hard skin of the Sweet potato winter squash allows this unique vegetable spaghetti to be harvested in the fall and be stored for 3 months and the high sugar and extra flavor adds to the overall taste. Harvest in mid or late September.

## WINTER STORAGE SQUASH

CULTURE: Seed size varies between varieties. Sow all types outdoors June 1st at 65°F/18°C soil temp. .5 in/13 mm deep, 4-5 seeds per ft/30 cm, or 6 seeds per hill. Plant winter squash in 8 ft/2.5 m rows. MATURITY DATES are from the planting of greenhouse transplants to harvest.

## ACORN OR PEPPER SQUASH

Approx. 4,900 seeds/lb; 2,400 ft/lb; 3 lbs/acre.

**293C TAYBELLE PM** 68 days. Similar to regular Tay Belle with an intermediate tolerance to Powdery Mildew.

**291G CREAM OF THE CROP** 75 days. Compact bush. Creamy white 7.5 x 6 in/18 x 15 cm acorn. Nutty flavor. Stores well. AAS Winner.

**293G AUTUMN DELIGHT** 75 days. High yielding semi bush, earlier Table Ace type. Good PM tolerance.

**306K RENO** 75 days. Replaces Mesa Queen. Acorn fruit are dark green, semi-bush, productive plant. Golden yellow flesh is very sweet. 5 in/12 cm, 1.5 lb/.55 kg fruit.

**298A TABLE ACE** 78 days. Attractive fruits are moderately ridged, hard shelled and deep black-green in color. Thick flesh is rich orange, delicious. Semi bush.

**291J HONEY BEAR** 80 days. F1 hybrid. Compact plant has PM tolerance, 3-5 dark green fruit per plant. Cooked flesh has high sugar flavor. AAS Winner.

**293R CELEBRATION** 90 days. F1 hybrid. Unique gold and orange ribbed, 4 x 5 in/10 x 12.7 cm, 1 1/2 lbs/.7 kg, acorn shaped squash with an eating quality superior to other acorns. Soluble sugar test at 30-50% higher than other varieties. Plants are Powdery Mildew tolerant.

**304 SWEET DUMPLING** 100 days. Ornamental blocky striped acorn 4 in/10 cm in fruit. Sweet orange flesh is great for stuffing. Stores 3-4 months.

## BUTTERCUP SQUASH

Approx. 2,400 seeds/lb; 1,100 ft/lb; 6.5 lbs/acre.

**298L BONBON** 81 days. F1 hybrid. Earlier than other Buttercup types. Green fruit with silver stripes averages 4 lbs/1.5 kg. Thick orange flesh has sweet flavor an abundance of vitamin A. AAS Winner.

**292 BUTTERCUP** 90 days. Burgess strain is the finest Buttercup in our trials. Dark green, great uniformity, deep orange flesh, sweet and extra dry. 3-4 lbs/1-2 kg.

**306J SUNSHINE** 95 days. F1 hybrid. Vibrant orange skin, 3-4 lb/1-2 kg fruit are flat/globe shaped and "cupless". The bright orange flesh is very sweet, nutty, creamy smooth and stringless when baked or micro-waved. High vitamin content and great flavor. Stores well. AAS.

**309C ORANGE CUTIE** 95 days. F1 hybrid. Smaller 1.7 lb/800 g, bright red/orange Ambercup type with a semi bush plant habit - fantastic fruit count per plant and excellent taste.

## HYBRID KABOCHA TYPES

**309 SWEET MAMA** 75 days. Kabocha hybrid "cupless". Green-grey fruit average 2.5 lbs/1 kg. Sweet taste - stores 5 months. Plants are fusarium tolerant.

**295C SUPER DELIGHT** 100 days. Kabocha hybrid. 4.5 lbs/2 kg dark green cupless buttercup. Rich sweet orange flesh is dry and fiberless. Stores well.

**309G GREY GHOST** 100 days. Kabocha hybrid. 12-15 lb/4-5 kg flat globe, cupless, uniform fruit. Stores well. Amazing taste.

**309H SPECIAL EXPORT** 100 days. F1 hybrid. Kabocha type which average 3-4 lb/1-2 kg - flat globe shaped, dark green fruit with orange flesh. Excellent for storage, high yields, great taste.



BonBon



Sunshine



Grey Ghost

NEW	NOVELTY SQUASH		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb per lb	25 lb per lb
	305	Vegetable Spaghetti	15	2.15	2.95	4.60	14.30	11.20	10.63
	305G	Tivoli Hybrid	15	4.00	21.10	52.15	149.60	125.05	115.07
	WINTER SQUASH		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb per lb	25 lb per lb
	291J	Honey Bear Hybrid	15	4.05	18.80	46.50	133.35	111.50	102.59
	292	Buttercup	15	2.70	4.95	9.70	30.20	23.70	22.50
	295C	Super Delight Hybrid	15	6.10	45.25	101.60	291.30	243.50	216.62
	298L	Bonbon Hybrid	10	4.25	24.20	59.85	171.60	143.45	127.60
	304	Sweet Dumpling	15	2.70	15.00	37.05	106.30	88.85	79.04
	306J	Sunshine Hybrid	10	4.25	37.10	91.75	263.10	219.95	202.40
	309	Sweet Mama Hybrid	10	4.05	30.35	75.10	215.35	180.00	160.14
	309H	Special Export Hybrid	10	4.25	23.25	57.45	164.70	137.65	122.47
	HYBRID SQUASH (M = 1,000 seeds)		# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	291G	Cream of the Crop	15	3.00	14.40	42.45	35.73	32.08	28.82
	293C	Tay Belle PM	15	3.00	14.45	42.63	35.88	32.22	27.20
	293G	Autumn Delight	15	3.00	16.20	47.80	40.23	36.12	30.93
	293R	Celebration	15	3.20	11.75	35.97	30.27	28.48	25.55
	297S	Sunny Delight	15	3.00	19.45	57.36	48.27	43.34	37.11
	298A	Table Ace	15	3.00	14.05	41.41	34.85	31.29	26.79
	298T	Ishtar	15	4.05	16.90	49.85	41.96	37.67	32.26
	300C	Clarita	15	3.00	14.60	43.02	36.21	32.51	27.84
	302Q	Pinnacle	25	4.25	19.65	60.09	50.58	47.59	42.69
✓	306K	Reno	15	3.00	15.55	45.75	38.51	34.57	29.61
	307A	Stripetti	15	3.20	10.05	29.59	24.91	22.36	19.15
	309C	Orange Cutie	10	4.25	25.50	75.12	63.22	56.76	48.61
	309G	Grey Ghost	10	4.25	25.50	75.12	63.22	56.76	48.61





Delicata



Ultra HP



Mini Orange Hubbard



Mini Green Hubbard



Heavenly Hubbard

## WINTER STORAGE SQUASH

**CULTURE:** Seed size varies greatly between varieties. Sow all types outdoors June 1st. at 65°F/18°C soil temp. (treat earlier sowings with Captan or Thiram to prevent seed rot) .5 in/13 mm deep, 4-5 seeds per ft/31 cm, or 6 seeds per hill. Plant winter squash in 8 ft/2.4 m rows. **HARVEST:** Allow winter squash to ripen thoroughly in the field, until shell is quite hard. Exposure to frost injures keeping quality. Some varieties are offered untreated (UT) or treated seed. Please note on your order which type of seed you prefer. **CROOKED FRUIT:** This is related to cultural practices, row spacing, plant population, fertility, rolling land etc. **STORING WINTER SQUASH:** Acorn and Butternut squash will only last about 4-8 weeks after harvest, even in the best of storage conditions, so delay harvest until a week before fall frost, for better taste. Store acorns at 50-60° F/10-16°C in open pallet bins with plenty of air circulation. Do not heat treat! Butternuts should keep 2-3 months at 50°F/10°C with 50% relative humidity; Hubbards and Delicious types should last 6 months at 50-55 °F/10-13°C with 70% RH. Heat treating or curing fruit for 15 days at 24°C will reduce moisture content of larger types-adding better taste, but shortening life. Circulate air "F" prefixed seed contains the class ingredient neonicotinoids.

### SWEET POTATO SQUASH

Approx. 4,900 seeds/lb; 2,400 ft/lb; 3 lbs/acre.

**294 DELICATA** or **SWEET POTATO** 100 days. Vine type O/P original. Oblong 6-8 in/15-20 cm long, fruit are cream/dark green stripes. Stores 4 months.

### HUBBARD & DELICIOUS SQUASH

Approx. 2,400 seeds/lb; 1,100 ft/lb; 6.5 lbs/acre.

**303 GOLDEN HUBBARD** 90 days. Shells are moderately warted with deep orange flesh. 10-12 lbs/5 kg.

**295G MINI GREEN HUBBARD** 100 days. Smaller improved version of Hubbard Improved Green, but one third the size. Mid green, average 2.5 lbs/1 kg.

**295H MINI ORANGE HUBBARD** 100 days. F1 hybrid. Similar in size and shape to the Mini Green. Dark orange fruit average 2.5 lbs/1 kg. Excellent taste.

**295K RED OCTOBER** 100 days. F1 hybrid. 6.5 lb/3kg orange/red Hubbard. Great taste!

**302H HEAVENLY HUBBARD** 100 days. F1 hybrid. High yielding 26 lb/11.5 kg blue/grey Hubbard. A good replacement for New England Blue Hubbard.

### HYBRID BUTTERNUT SQUASH

Approx. 4,900 seeds/lb; 2,400 ft/lb; 3 lbs/acre.

**306B EARLY BUTTERNUT HYBRID** 75 days. Earliest semi-bush Butternut for fresh market. Very uniform regular sized 7 in/18 cm fruit is free of crook necks.

**295J ATLAS** 90 days. F1 hybrid. High yielding short vine type. 4 lb/2 kg fruit has dark orange flesh and cylindrical shape with slight bulb. Ideal for processing.

**306L AVALON** 90 days. F1 hybrid. Elite Zenith type with outstanding yields and uniformity. 3.5 x 9 in/ 7 x 24 cm tan colored fruit has fine grained orange flesh. For roadside sales or processing.

**306H ULTRA HP** 90 days. F1 hybrid. Larger, thicker slightly shorter necks than the original. 15 x 4.5 in/ 37 x 11 cm light tan fruit weighing 9 lbs/4 kg has nice interior quality. For roadside sales or processing.

**F296Q QUANTUM** 95 days. F1 hybrid. 2.5-4.5 lbs/1-2 kg Nice size, shape and uniformity. Tan fruit have thick necks, small seed cavities, smooth exteriors and average 10 in/25 cm in length. Vigorous vines - excellent for peeling and boxing for chainstore sales. Great orange interior color and taste.

### OPEN POLLINATED BUTTERNUTS

Approx. 4,900 seeds/lb; 2,400 ft/lb; 3 lbs/acre.

**306A WALTHAM BUTTERNUT** 82 days. Uniform 8 in/ 20 cm long, thick tan O/P fruit, deep orange interiors. For untreated seed, order **UT306A**.

**N306A WALTHAM BUTTERNUT** 82 days. Organically grown seed of the popular O/P standard.

## SUMMER TURNIP

**CULTURE:** For greens; sow a wide band at 40 seeds per ft; for root turnips sow 6 to 8 seeds per ft. 1 oz/28 g contains approx. 10,000 seeds. Sow in late July for fall harvests. **SIZED SEED.**

**372D WHITE LADY** 35 days. F1 hybrid. Pure white, semi round, 2.5 in/6 cm root. Very mild, sweet roots, 20 in/51 cm dark green tops. Bolting tolerance.

**372J TOP STAR** 36 days. F1 hybrid. Broad serrated leaves, early regrowth. Outstanding yield potential. Grown for tops only. Multiple harvests. Slow bolting.

**372E SEVEN TOP** 45 days. Grown for 22 in/56 cm dark green tops only (use roots for stock feed). Hot weather affects leaf color, so make several sowings. O/P

**372 PURPLE TOP WHITE GLOBE** 60 days. A true turnip for early summer harvesting. Produces round roots about 4 in/10 cm in diameter, purple shoulder, white body. Tops suitable for "greens". O/P



Purple Top White Globe

White Lady



**Growing Information**  
available at  
[www.StokeSeeds.com](http://www.StokeSeeds.com)



Red October



Atlas

NEW	WINTER SQUASH		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	
	294	Delicata or Sweet Potato	25	2.70	6.45	12.60	39.25	30.75	29.23	
	295G	Mini Green Hubbard	25	2.70	9.95	18.35	57.10	44.75	41.04	
	295H	Mini Orange Hubbard Hybrid	25	5.30	15.60	38.65	110.80	92.65	82.40	
	303	Golden Hubbard	25	2.70	4.05	7.65	23.80	18.65	17.72	
	306A	Waltham Butternut	25	2.15	3.20	6.05	18.80	14.75	14.00	
	N306A	Waltham Butternut (Organic)	25	5.10	15.75	34.30	98.40	82.25	73.18	
	WINTER SQUASH (M = 1,000 seeds)		# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M	500 M per M
	295J	Atlas Hybrid	25	4.25	14.85	45.37	38.18	35.92	32.23	30.59
295K	Red October Hybrid	25	4.25	24.55	75.12	63.22	59.48	53.36	50.65	
F296Q	Quantum	15	4.25	17.75	54.34	45.73	43.03	38.60	36.63	
302H	Heavenly Hubbard Hybrid	25	4.70	48.45	148.19	124.72	117.34	105.27	99.91	
306B	Early Butternut Hybrid	25	3.75	11.65	35.66	30.01	28.24	25.33	24.04	
306H	Ultra HP Hybrid	25	3.20	13.10	40.06	33.72	31.72	28.46	27.01	
306L	Avalon Hybrid	25	3.20	12.30	37.56	31.61	29.74	26.68	25.32	
SUMMER TURNIP		# seeds per pkt	Pkt	½ oz 14 g	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	
372	Purple Top White Globe O/P	350	2.70		10.15	22.00	29.35	20.40	16.67	
372D	White Lady Hybrid	350	2.70	15.95	23.80	81.00	214.50	182.95	155.08	
372E	Seven Top O/P		N/A	N/A	6.60	14.25	19.05	13.25	10.82	
372J	Top Star Hybrid	350	2.70	6.60	9.85	33.45	88.60	75.55	64.06	





Ultrasonic VFT



Ultra Sweet VFT



Big Beef VFNT



Pink Cupcake VFFN/ToMV



Ultra Girl VFN

## STOKES HYBRID TOMATOES

**CULTURE:** oz/28 g produces 6,000 - 9,000 plants in the greenhouse. Sow Feb.15th (early crops) and March 15th to April 1st (main crops) .25 in/6 mm deep at 8 seeds per in/25 mm, a soil temp. of 80°F/27°C for 5-12 days. Grow seedlings 60°F/16°C, fairly dry, for better roots. Transplant when seedlings are about 1.5 in/4 cm high. Set outside after frost danger. Tomato seed is variable in size; approx. 7,400 seeds per oz./28 g. Most seed will germinate at 80%-90% in soil. Fruit size increases by 2-4 oz/ 57-113 g on stakes vs. rows. To increase fruit size, remove suckers. DF = Defuzzed Seed; GS = Graded Seed

**HYBRID TOMATO** seed is produced by a hand pollinated cross between two distinct parent lines. This produces extreme vigor, more uniform growth, higher yields, and better quality than open pollinated types. Hybrids need more fertilizer and all "suckers" removed (shoots that grow in axils of leaves), when small. Stake all hybrids, except determinate or bush types, to obtain the fruit size described below. **MATURITY DATES:** Average time to reach maturity from field transplanting, from transplants raised in the greenhouse.

**TOMATO DISEASES:** In the last few years growers have almost eliminated seed borne diseases on tomato seeds. Now the leading causes are considered to be (a) field trimmed transplants that have been mowed before shipping, (b) unsterilized plastic foam transplanting trays, (c) unsterilized potting soil, (d) improperly fumigated greenhouses, (e) nesting insects from outdoors, (f) perennial diseased host plants near the field (golden rod, wild turnip, asparagus), (g) failure to rotate crops from the previous year, (h) overhead irrigation and (i) contaminated knives or tools used when suckering or cultivating. Recent evidence indicates that migratory insects cause bacterial disease.

### HYBRID STAKING TYPES

**343A ULTRA SWEET VFT** 62 days. First early medium sized beefsteak type with improved TASTEBUD® flavor in the green wrap stage. Deep globe, 10 oz/280 g bright red fruit are very firm and have an outstanding balance of sugar/acids which give a good "tomato" aftertaste or flavor for consumers. Interior color develops quickly before the green wrap stage and much earlier than other hybrids. Immature fruit have pink interiors and a high sugar/acid taste which helps fruit arrive at distant markets with a better vine ripened taste. Fruit are uniform ripening and have good crack tolerance. **DF/GS** Exclusive.

**347 ULTRA GIRL VFN** 62 days. Certainly the ultimate in an early staking hybrid. Bright red fruit are very firm, 7-9 oz/227 g in weight and do not have green shoulders. Ultra Girl shows a good tolerance to cracking. Semi determinate plant may be grown without staking. This variety has multi tolerance to Verticillium, Fusarium and Nematodes. **DF/GS** Exclusive.

**333A ULTRASONIC VFT** 65 days. Same TASTEBUD® taste and high class appearance as Ultra Sweet VFT, but fruit are slightly larger. Semi-bush plants may be used for short stakes, cages or row crops. Globe shape fruit have unusual firmness at the full ripe stage, averaging 12 oz/340 g on stakes, no green shoulder. Good crack tolerance, great taste! Compare to Jet Star VF and Moreton hybrid. Replaces Fantastic VFF. **DF/GS** Exclusive.

**366D ULTRA BOY II VFN** 68 days. Replaces our original hybrid. An earlier deep globe, 14 oz/370 g, very firm dark red hybrid with excellent taste! Fruit have a slight green shoulder. Plants are indeterminate and recommended for staking, basket weave culture or bedding plant use. Bred by Dr. Paul Thomas, one of Peto's most successful tomato breeders and winner of several All America Selections Awards from the 1960's to 1970's. **DF/GS**

**320 BETTER BOY VFN** 72 days. A standard large fruited hybrid used for bedding plants or baskets. Fruit average 16 oz/454 g. Standard home garden variety where Nematodes, Verticillium Wilt or Fusarium are common problems. Good leaf cover for southern climates. **DF/GS**

**343B BRILLANTE VFFT** 73 days. Medium size 7 oz/198 g globe shaped fruit. Very firm, good taste, green shoulders and extended shelf life. Medium size plants are great for outdoor stakes or greenhouse use. This seed is greenhouse grown by our supplier Hazera - which explains the high price of the seed.

**360A BIG BEEF VFNT** 73 days. Extra large 10-12 oz/280-340 g, globe shaped, good tasting beefsteak for staking. Good disease tolerances to VFNT plus Alternaria, Stem Canker and Grey Leaf Spot. AAS Winner.

**360 BEEFMASTER VF** 81 days. Formerly listed as Beekeeper VFN (name changed for obvious legal reasons). Standard extremely large 20 oz/560 g, Italian beefsteak with outstanding taste for the bedding plant trade. Indeterminate plants are also tolerant to ST and ASC. Deep red oblate shaped fruit. **DF/GS**

### TOMATO DISEASES

**V** - Verticillium      **F** - Fusarium 1  
**FF** - Fusarium 1, 2      **FFF** - Fusarium 1, 2, 3  
**N** - Nematodes      **TMV** - Tobacco Mosaic  
**TSWV** - Tomato Spotted Wilt Virus  
**ToMV** - Tomato Mosaic

### PINK AND LEMON HYBRIDS

**337A ULTRA PINK VFT** 64 days. A pure pink version of Ultra Sweet VFT. Replaces Pink Girl with an earlier pink staking type that is a week earlier in maturity, with slightly larger and firmer fruit. Deep globe 10oz/280g rose pink. **DF/GS** Exclusive.

**394Q PINK CUPCAKE VFFN/ToMV** 72 days. Semi dwarf, high yielding, firm 9 oz/255 g rose pink, deep oblate fruit have excellent beefsteak interior color and great flavor. Plants provide good cover and adapt to short stakes for both high tunnel and field use. Good disease tolerances. **DF/GS**

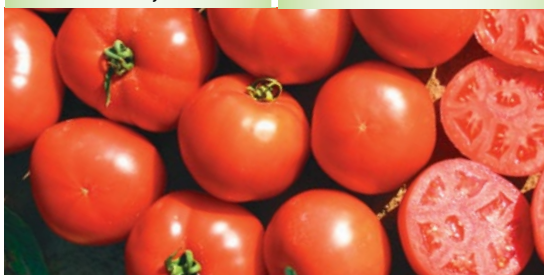
**399A LEMON BOY VFN** 72 days. Lemon yellow, deep globe fruit average 7 oz/198 g. More attractive than "golden" types, very productive, mild flavor and unusual color. **DF/GS**



Lemon Boy VFN



Ultra Pink VFT



Scarlet Red VFF



Brillante VFFT

NEW	HYBRID TOMATO	# seeds Per pkt	Pkt	1/32 oz 1 g	1/16 oz 2 g	1/8 oz 4 g	1/4 oz 7 g	1/2 oz 14 g	oz 28 g
	333A Ultrasonic	40	2.70	12.25	16.75	27.70	48.45	75.25	121.65
	337A Ultra Pink	40	2.70	12.25	16.75	27.70	48.45	75.25	121.65
	343A Ultra Sweet	40	2.70	12.25	16.75	27.70	48.45	75.25	121.65
	347 Ultra Girl	40	2.70	12.25	16.75	27.70	48.45	75.25	121.65
	<b>HYBRID TOMATO</b> (M = 1,000 seeds)	# seeds Per pkt	<b>Pkt</b>	<b>250</b> seeds	<b>500</b> seeds	<b>1 000</b> seeds	<b>5 M</b> per M	<b>25 M</b> per M	<b>100 M</b> per M <b>500 M</b> per M
	320 Better Boy	40	4.25		18.25	29.96	28.39	24.63	24.00    23.06
	343B Brillante	10	8.40	54.90	81.25	137.89	129.99	127.35	123.84
	360 Beefmaster	40	3.75		17.85	29.29	27.76	24.08	23.47
	360A Big Beef	40	4.25		23.40	38.33	36.32	31.51	30.71    29.50
	366D Ultra Boy II	40	3.75		23.80	39.03	36.99	32.08	31.27    30.04
	394Q Pink Cupcake	40	3.75		27.60	45.25	42.88	37.19	36.25    34.82
	399A Lemon Boy	40	3.75		24.95	40.88	38.74	33.60	32.75    31.46





Hy-Beef 9904 VFT



Primo Red VFFT/TSWV



Red Bounty VFFN/TSWV/GLS



Florida 47R VFF



Rocky Top VFFF

## EARLY BUSH TYPE HYBRIDS

**332Y PRIMO RED VFFT/TSWV** 65 days. Our best 8.5 oz/241 g, smooth extra large, VERY firm, red fruited - second early deep globe. Provides an excellent vine ripe jumbo for early fresh market sales. Compact bushy plants can be used for row crops, short stake crops or high tunnel production. Excellent disease package includes VFF, TMV and some TSWV tolerance. Nice interior quality - great taste! For untreated seed, order **UT332Y. DF/GS** Limited Distribution.

**343M MOUNTAIN GLORY VFFF/TSWV** 70 days. An improved Mountain Spring type. Extra disease tolerance to Fusarium 3 and Spotted Wilt Virus. Red fruit range from 10 oz/280 g to extra large. Refined blossom ends; smooth UG shoulders. Determinate plant.

**332T HY-BEEF 9904 VFT** 70 days. An amazingly firm jumbo with beautiful deep globe, smooth appearance. Huge, scarlet red semi-seedless fruit average over 9 oz/252 g x 3.5 in/9 cm across. Dense interiors are like paste tomatoes, "solid as a rock", providing outstanding crack tolerance and at least 10 days shelf life. Bushy plants can be used for short stakes or row culture. For shipping, fresh market. **DF/HWT/GS**. Exclusive. Pkt. (40 seeds) \$5.15; 1/32 oz \$12.15; 1/16 oz. \$18.15; 1/8 oz. \$26.75; 1/4 oz. \$45.30; 1/2 oz. \$76.50; oz. \$128.15; 1/4 lb. \$470.20.

**343D DEFIANT VF2/PhR** 70 days. One of the first hybrids which combines both Ph-2 and Ph-3 major genes for high late blight (Phytophthora) resistance. Plants also have good tolerances to Verticillium and Fusarium race 2 plus intermediate tolerance to Early Blight. Mid-size, globe shaped 5-7 oz/165 g. fruit are moderately firm with deep red exterior and beefsteak interior texture. This size fruit is recommended for the sub sandwich market suppliers. Plants are medium sized, determinate for short stakes or row crops.

**333R RED DEUCE VFF/TMV** 72 days. Compare to Mountain Spring and Mountain Glory. Large 10 oz/280 g. globe shaped, uniform ripening fruit mature to a deep red color and are very smooth, with excellent eating quality. Determinate plants are strong with good foliage cover, heat tolerance and high yields. Stemphylium tolerant. Limited Distribution.



Red Deuce VFF/TMV

## MAIN SEASON HYBRIDS AND LATE HYBRID BUSH TYPES

**CULTURE:** Cold soil temps between 45°F/7°C and 52°F/11°C seriously delay the effects of normal sidedress fertilizers like Ammonium Nitrate (5-9 weeks) to become 50% available. Use Calcium Nitrate for rapid but uniform release. For larger fruit remove at least two suckers below the first set on semi bush types. Too much fertilizer will cause soft fruit and blotchy ripening in most of the early types. Every variety has a different "taste window" at the breaker stage. This MUST be monitored by the grower since most tomatoes sold in chain stores are shipped green (when soluble sugars are just beginning to form) - to promote a longer shelf life of 15-20 days in the store. Refrigerated trucks or cold room storage at the store below 53°F/11.5°C will quickly reduce both the sugars and the overall taste.

**332 CELEBRITY VFNT** 70 days. Plant is adapted for row crops. Large 10 oz/280 g fancy, firm green shouldered fruit turn dark at maturity. **DF/GS** AAS Winner.

**P333S SOLAR FIRE VFFF** 73 days. Improved flat globe Hot Set type with strong ability to set fruit during hot weather. Fruit average 8-10 oz/227-280 g. Compact plants have some Grey Leaf Spot tolerance and extra Fusarium tolerance. Pellets only.

**324B FLORIDA 47R VFF** 74 days. Very large 10 oz/280 g green wrap vine ripe with exceptional firmness and fruit quality. Deep oblate fruit- excellent shipper, semi bush plants for short stakes or basket weave culture. Additional ALS and GLS tolerance. **DF/GS**

**324J ROCKY TOP VFFF** 74 days. Very firm 7.25 oz/205 g high yielding, large fruit with superior eating quality. Well adapted bushy plants for vine ripe or high tunnel production and short stakes. Good tolerance to 3 races of Fusarium and Gray Leaf Spot.

**333J RED BOUNTY VFFN/TSWV/GLS** 74 days. Extra large 10 oz/280 g., uniform, smooth, globe shaped red fruit are very firm and have nice good tasting dark red beefsteak interiors. Plants are very strong, semi determinate with good foliage cover and set well in hot weather. High tolerances to Fusarium 1, 2, Verticillium, Nematodes and Grey Leaf Spot, plus some tolerance to Spotted Wilt Virus.

**332S BILTMORE VFF** 74 days. Extra large 10 oz/280 g high quality, very firm fruit with good crack tolerance. Semi determinate plant - for row crops or basket weave culture. Also tolerant to Alternaria Stem Canker. **DF/GS**

**333D SCARLET RED VFF** 74 days. Deep globe type with good shelf life and extra large fruit. Firm, great tasting flesh has the high crimson gene which accounts for its mature dark red color. Vigorous determinate plant provides good fruit cover and excellent yields. For basket weave or row crop culture. Use as a mature green or vine ripe type. Also tolerant to Grey Leaf Spot; Alternaria Stem Canker. Compare to Florida 47R. **DF/GS**

**332P MOUNTAIN FRESH PLUS VFFN** 75 days. Improved nematode tolerant version of the original. High quality, 9 oz/255 g. globe shaped, smooth fruit are very firm. Wide harvest or breaker stage, better taste. Excellent fresh market, chain store type. Vigorous plants provide good cover and work well on short stakes or basket weave culture. Some early blight tolerance. **DF/GS**



Defiant VF2/PhR



Mountain Fresh Plus VFFN

## TOMATO DISEASES

**V** - Verticillium

**FF** - Fusarium 1, 2

**N** - Nematodes

**TSWV** - Tomato Spotted Wilt Virus

**ToMV** - Tomato Mosaic

**F** - Fusarium 1

**FFF** - Fusarium 1, 2, 3

**TMV** - Tobacco Mosaic

**GLS** - Gray Leaf Spot

NEW	HYBRID TOMATO Raw Seed (M=1,000 seeds)	# seeds per pkt	Pkt	500 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	324B Florida 47R	40	9.60	57.45	83.81	78.88	72.96	68.03
	324J Rocky Top	40	9.40	42.50	61.99	58.34	53.96	50.32
	332 Celebrity	40	5.10	23.30	38.18	36.19	29.59	27.59
	332P Mountain Fresh Plus	40	2.95	32.20	47.00	44.24	40.92	38.15
	332S Biltmore	40	9.10	60.35	88.06	82.88	76.66	71.48
	332Y Primo Red	40	9.35	57.85	84.42	79.45	73.49	68.53
	333D Scarlet Red	40	9.55	54.20	79.07	74.42	68.84	64.19
	333J Red Bounty	25	9.55	67.15	110.10	104.34	85.31	79.55
	333R Red Deuce	40	9.55	56.80	93.10	88.23	72.14	67.27
	343D Defiant	40	9.75	105.55	173.04	163.98	134.09	131.37
	343M Mountain Glory	40	4.65	51.20	74.73	70.34	65.06	60.66

NEW	HYBRID TOMATO Pelleted Seed (M=1,000 seeds)	1,000 seeds	5 M per M	25 M per M	100 M per M
	P324B Florida 47R	84.42	79.45	73.50	68.53
	P324T Tachi	69.46	65.83	53.83	50.19
	P329D Picus	58.51	55.06	50.93	47.49
	P330B Smarty	150.94	142.07	131.41	122.53
	P332P Mount. Fresh Plus	48.72	45.86	42.42	41.56
	P332S Biltmore	88.67	83.45	77.20	71.98
	P332X Mariana	40.94	38.80	31.72	29.58
	P332Y Primo Red	84.84	79.85	73.86	68.87
	P333D Scarlet Red	79.44	74.77	69.16	64.49
	P333J Red Bounty	110.56	104.77	85.67	79.88
	P333R Red Deuce	93.57	88.68	72.51	67.61
	P333S Solar Fire	75.25	70.82	65.51	61.08
✓	P342 Glamour O/P	10.30	9.06	8.24	7.42
	P418F Sunoma	57.35	53.98	49.93	46.56
✓	P418P Pony Express	72.03	68.26	55.82	52.04





Basket Vee

Brandywine

Carolina Gold VFF

Lunchbox VF

Pineapple

## STOKES HYBRID/OPEN POLLINATED/HERITAGE TOMATOES

NOTE: All of these varieties have been either screened by a certified lab for bacterial seed borne disease, or treated with hot water at 122°F/50°C or rinsed with chlorine and water to control possible seed borne disease.

### PATIO TYPES FOR CONTAINERS

**336 TUMBLER HYBRID** 48 days. Extremely early, determinate bushy plants are excellent for **hanging baskets** or 6 in/15 cm pots. Masses of round, 1.25 in/3 cm, bright red, sweet fruit. **DF**

**334 PATIO HYBRID** 50 days. Developed for bedding plant growers or **container sales**. Dark green, bushy, potato leaf foliage average 24 in/60 cm. Produces large 4 oz/113 g red fruit. **DF, GS**

**336A TUMBLING TOM RED** 50 days. F1 hybrid. High yields, **sweet flavor**. Masses of 1.25 in/3 cm round red fruit. 6 in/15 cm pots. **DF, GS**

**336D TUMBLING TOM YELLOW** 50 days. F1 hybrid. Same **cascading type** for container use as the red version. Same high yields, sweet flavor. Masses of 1.25 in/3 cm round yellow fruit. **DF, GS**

**338S SWEET 'N' NEAT SCARLET IMP** 55 days. F1 hybrid. Compact plant 12 in/30 cm high produces lots of large cherry. .75 oz/25 gr., 1 in/25 mm scarlet red, round fruit with a **6% brx** (soluble sugar content) flavor rating. A perfect choice for gallon containers on the patio.

**336T TERENCE** 56 days. F1 hybrid. High yielding, extra large red cherry or **cocktail size**. .25 in/30 mm fruit with a **6-7% brx** that have a good tolerance to cracking and extreme summer heat. Plants are semi-determinate with a spread of only 16-20 in/45-50 cm, which provides a plant that can be grown on short stakes or used for tidy hanging baskets. AAS Winner.

**317 LUNCH BOX VF** 62 days. F1 hybrid. High quality, with the **same Tastebud® as Ultra Sweet**. Egg sized fruit, skins tender. Bushy type plants are loaded with 30-40 high crimson saladette fruit. **DF, GS** Exclusive.

### OLDIES BUT GOODIES

Heritage varieties have VERY short shelf life taste windows of only 3-5 days after harvest, usually full ripe - for maximum taste. Most have no disease tolerances at all. The following varieties should mature as far north as Chicago or Toronto. Most modern varieties have extended taste windows of up to 20 days after harvest and can generate soluble sugars and acids after the green wrap or ¼ ripe maturity stage, 10 to 15 days before the heritage types.

**373C CHEROKEE PURPLE** 72 days. Semi indeterminate. Large, 10 oz/283 g, flat globe fruit are a dusky purple-pink-brown color. Interiors have unique purple-pink to brown-green color. Flavorful, low acid taste.

**373Q PINEAPPLE** 75 days. Semi determinate. Huge, flat globe, fruit averages 16 oz/454 g. Bicolor skin is yellow with rosy red streaks. Flesh has unique yellow-rose marbling and delicious low acid, mild flavored taste.

**373Z GREEN ZEBRA** 75 days. Semi determinate plant needs short stakes. Unique tangy taste. Harvest as 4 oz/227 g green fruit. Develops a yellow blush which accentuates the dark green vertical stripes.

**373G STRIPED GERMAN** 78 days. Stake indeterminate plants. Huge 2 lb/907 g red & yellow bicolor beefsteak fruit have unique ribbed shoulders and flat globe shape. Complex fruity flavor. Interiors are gold, red and rose.

**373S MR. STRIPEY** 80 days. Indeterminate plants need stakes. Extra large 10 oz/283 g yellow bicolor with rosy red stripes. Low acid, mild flavored beefsteak interiors are yellow with pink and red marbled flesh and pink hearts.

**333F OXHEART RED** 80 days. Heart shaped 10-12 oz/240 g pinkish red beefsteak fruit have a mild, sweet flavor. Indeterminate vines should be staked. Prices of the Heritage tomatoes above: Pkt. (40 seeds) \$2.70; 1/8 oz. \$10.35; 1/2 oz. \$26.90; 1/4 lb \$145.00.

### BEEFSTEAK TYPES

**324 SUB ARCTIC MAXI** 48 days. Earliest large fruited, fresh market type for far north regions. Plants set 2.5 oz/71 g scarlet 2 in/5 cm round fruit. **DF, GS**

**351 BUSH BEEFSTEAK** 62 days. Tomatoes for bedding plant sales in short season areas. Large 8 oz/227 g in weight, are rich red, with solid interiors. **DF, GS**

**326 BASKET VEE** 70 days. Best flavor of the early bush types. Compact plants have some tolerance to VFN. Large 8.5-9 oz/255 g smooth fruit are very firm. Also selected for tolerances to catfacing, blossom end rot and cracking. Use for fresh market or bedding plant sales. **DF, HWT, GS** Exclusive **O/P**

**342 GLAMOUR** 75 days. F1 hybrid variety with Verticillium tolerance. For bedding plant sales. Round 6-8 oz/168-227 g red fruit. **DF, GS**

**P342 GLAMOUR** 75 days. Pelleted version for bedding plant growers sold by seed count. See page 53 for pricing.

### BEDDING PLANT TYPES

**398 TINY TIM** 45 days. The standard dwarf large cherry type for bedding plant sales. Also used for pots or containers and window sill gardens. **DF, O/P**

**316C CHERRY PINK** 68 days. Low acid but very high sugar flavor - developed for senior citizens. Medium sized rose-pink fruit mature on dwarf plants. **DF, GS**

**365 SMALL FRUITED MIXED** 75 days. A formula blend of many old favorites, red and yellow miniature cherry, pear and plum types. Plants are indeterminate and should be staked and suckered for best results. Beautiful 1-2 in/25-50 mm, tasty fruit for salad bars. **O/P**

**337B SUMMER PINK VF** 63 days. The world's first true bush pink hybrid. Superior taste with good acid/sugar balance. Globe-shaped fruit are (7.5-8 oz/213-227 g) VERY firm and a beautiful color. **DF, GS** Exclusive

**333E CONESTOGA** 68 days. F1 hybrid plants should be staked. Large 9 oz/255 g fruit should be harvested red ripe for proper interior color. Excellent taste. Tolerant to TMV and Fusarium.

**400G GOLDEN ROMA II VF** 70 days. Gold colored Roma. Great taste, mild, non acid flavor - bushy plants. Excellent for fresh market sales, canning, sauces and salsa. **DF, GS**

**336B TOPSY TOM** 71 days. Perfect for popular "upside down" tomato planters. Trailing 18 in/45 cm stems, small 1.25 in/3 cm - 6 oz/170 g red sweet fruit.

**400F CAROLINA GOLD VFF** 75 days. F1 hybrid. Fancy, firm, flat globe shaped tangerine/gold fruit. VERY firm for shipping. Large 8-10 oz/227-280 g fruit. **DF, GS**

**333H ACE 55 VF** 75 days. One of the first multi disease tolerant O/Ps. Determinate plant with good leaf cover. 6 in/15 cm, 6 oz/168 g flat globe, red beefsteak. For processing and canning.

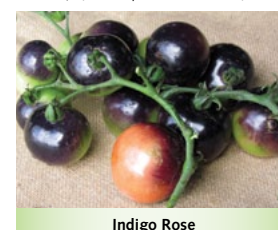
**373D BRANDYWINE** 80 days. Favorite "good tasting heirloom variety" used by bedding plant growers for consumer sales. Developed by Stokes in the 1800's as the standard for good flavor. Huge flat globe 10-16 oz/280-454 gr pinkish red fruit (some stripes). Semi-indeterminate potato leaf plant should be staked. **DF, GS**

**NEW UT333K INDIGO ROSE** 75-85 days. Novelty blue/black cocktail size 1.375 in/34 mm round fruit ripen with black tops, green bottoms to mature rose red on semi determinate plants. Deep red flesh with strong acidic flavor and high anthocyanin levels for health benefits. **pvp**

### TOMATILLO

**397B SAN JUANITO** 80 days. Indeterminate plant. 2¾-3½ oz/75-95 g green fruit are covered with a leafy green husk. Pkt. (100 seeds) \$2.80; 1/2 oz. \$17.10; oz \$26.90; 1/4 lb. \$66.55; lb. \$183.75.

**NEW 397R TAMAYO-R** 85 days. F1 hybrid. Reciprocal cross improved version, fruit are 2-3 times the size of O/P's. Very popular Mexican vegetable for salsa production. Pkt. (40 seeds) \$4.25; 500 seeds \$45.70; 1,000 seeds \$74.91.



Indigo Rose



Tamayo-R



## PLUM TOMATOES



**418P PONY EXPRESS VFFN/TMV** 72 days. Concentrated heavy yield of dark red medium to large size globe shaped firm saladette fruit for fresh market or shipping. F2 row crop or short stakes. Some tolerance to F3 and BLS. Pellets available, see page 53.

**400B DAIQUIRI VFN** 72 days. F1 hybrid. Not as blocky as Puebla and slightly more elongated than Capri (long oval shape). Very firm, uniform UG fruit average 3 in/7.5 cm long, 4 oz/102 g in weight. Great taste! DF/GS

**418A VEEROMA VF** 72 days. An early Roma type with Verticillium and Fusarium tolerance. Adapted to mechanical harvest for ketchup or paste, as well as whole pack and "pick your own". DF Exclusive. O/P

**324H PLUM CRIMSON VFFF** 74 days. F1 hybrid. An extra large Saladette with very uniform firm dark red fruit. Medium size plant has excellent cover and can be grown on stakes or row crops. High lycopene. DF/GS

**329D PICUS VF/TSWV** 74 days. F1 hybrid. Uniform, deep large Roma matures medium red, very firm. Determinate plants provide excellent fruit cover. For row or short stake crops. Tolerant to ASC, GLS and TSWV. Pellets available. See page 53. DF/GS, **pvp**

**418F SUNOMA VFFT** 74 days. F1 hybrid. Extra large paste type with good firmness and color - large plum shape. Determinate plant tolerant to VFFT. DF/GS Pellets available, see page 53.

**400 ROMA VF** 75 days. Roma red plum, medium size, heavy yields. Use for paste, ketchup, bedding plants, fresh market.

**332X MARIANA VFFN** 74 days. F1 hybrid. A large, smooth dark red 4.5 oz/125 g saladette with excellent interior color, firmness, yield and shelf life. For stakes or row crops. DF/GS Pellets available, see page 53.

**418J HYBRID 46 VFFN/FCRR** 76 days. F1 hybrid. A large jointless 3.5-4 oz/90-112 g improved Spectrum 882 type with Fusarium Crown Rot tolerance. DF/GS

### LONG PLUM VARIETIES



**338A SUPREMO VFFF/BLS** 70 days. Early, large, elongated saladette, high quality, firm, uniform red fruit have great shelf life and taste. Some TSWV tolerance.

**324T TACHI VFFN** 76 days. Works well for mature green and vine ripe production. High quality extra large, firm elongated fruit have good shelf life at maturity. Medium sized determinate plants can be used for row crops or short stakes and set well in extreme summer heat. Some TSWV tolerance. Pellets available.

**392 SAN MARZANO** 80 days. Elongated, flat-sided, blunt-ended, deep red O/P fruit, 3 in/8 cm long; 1.5 in/4 cm thick. Similar to Red Top, but larger. DF



Sweet Hearts F



Supremo VFFF/BLS



Sweet Million & Sweet Gold



Golden Rave F To MV



Red Candy



Picus VF/TSWV

### HYBRID GRAPE BUSH TYPE

**394Z SWEET ZEN** 60 days. Determinate plant grape type. Bright red, high brix, .5 oz/13-14 gr. fruit ship well and are heat tolerant. Perfect choice for patio containers.

### BABY GOLDEN ROMA

**333G GOLDEN RAVE F To MV** 74 days. F1 hybrid. Small, baby golden Roma averages only .75 oz/21 g. Excellent flavor. One third the size of traditional Roma types. Medium size indeterminate plant. DF/GS

### HYBRID GRAPE STAKING TYPES

**331S SWEET HEARTS F** 60 days. Brilliant red, very firm oval grape type with excellent flavor, brix and shelf life. Tolerance to cracking and Fusarium. DF

**394N HONEY BUNCH YELLOW VFFT** 60 days. F1 hybrid. Golden yellow grape type. Short clusters average 11 medium size oval-shaped 1/3-.25 oz/7-9 g, 1 in/25 mm fruit with great taste (brix 10%).

**394L CUPID F** 62 days. F1 hybrid. Indeterminate red grape type with Fusarium tolerance plus some tolerances to BSK, ASC, and ST. Long clusters average 16 small oval-shaped 3/8 oz/10 g, 1.25 in/3 cm fruit with excellent color and sweet taste (brix 8.2%).

**330R RED CANDY** 64 days. F1 hybrid. Easy to manage semi indeterminate plant with Fusarium 1 tolerance. Small grape shaped cylindrical red fruit are VERY sweet and uniform in size and shape. High yields. High brix.

**330B SMARTY VF** 65 days. Semi-determinate grape type with firm fruit, high sugar and long shelf life. Pellets available.

**394S SWEET MOJO F** 65 days. F1 hybrid red grape type. Extra long clusters average 20-21 fruit with high sugar flavor. Extended shelf life. Stake indeterminate plants. Some tolerance to cracking and Fusarium.

### HYBRID CHERRY STAKING TYPES

**338 SWEET MILLION TMV FN** 60 days. An improved, disease tolerant version of Sweet 100. Fruit are dark red, 1 in/25 mm. Tolerant to cracking. DF/GS

**338C SWEET GOLD TMV F** 60 days. A round golden version of Sweet Million. DF/GS

**338D SWEET ORANGE TMV F** 60 days. Firm, round, orange 1 in/25 mm high sugar 9-10 brix cherry fruit. Good crack tolerance. DF/GS

**407 SWEET 100** 60 days. Must be staked. Popular high sugar, small 1 in/25 mm red cherry fruit. DF/GS

**394C SWEET CHELSEA TMV FN** 67 days. Jumbo cherry-red fruit taste like Sweet 100. Fruit average 1.75 in/4 cm in size. Vigorous 3 ft/91 cm plants. DF/GS



**UT336J JASPER FF** 90 days. Excellent tasting cherry with 24 in/61 cm plant, .75 in/2 cm fruit, 100's of fruit per plant. Tolerant to early and late blight and both Fusariums. AAS Winner.

### STRAWBERRY (Everbearing Types)

CULTURE: 44,800 to 50,000 seeds per oz/28 g. Seed is easily sown by hand or machine in the greenhouse. Sow between Nov. 15 and Jan. 31 (like begonias). Plants are day neutral but extra light speeds up croptime on later sowings. Germination starts in 4-7 days at 68-72°F/20-22°C. Cover seeds lightly and keep moist. Transplant 8 weeks later (about the 3rd or 4th leaf stage). Grow plants cooler at 60-65°F/15.5-18°C (like onions) to encourage huskier plants. Transplant again into mixed gallon containers or 4 in/20 cm pots 6 weeks later. Croptime (seeding to berries): about 4 months. Fertilize as a vegetable! Perennial.

**395C FRESCA** 120 days. Best O/P available. Produces medium size sweet berries the first summer until fall. For pots and hanging baskets. Upright 12 in/30 cm plants produce slightly larger berries in the second year. Pkt (15 seeds) \$3.20; 100 seeds \$7.15; 500 seeds \$20.50; 1,000 seeds \$37.49; 5,000 seeds @ \$33.05 per M.

**395D PIKAN** 120 days. F1 hybrid perennial with a unique pink bloom. Everlasting type with medium sized, high sugar fruit. Excellent taste. Pkt. (15 seeds) \$6.35; 100 seeds \$35.75; 500 seeds \$125.75; 1,000 seeds \$225.00 per M; 5,000 seeds @ \$198.53 per M.

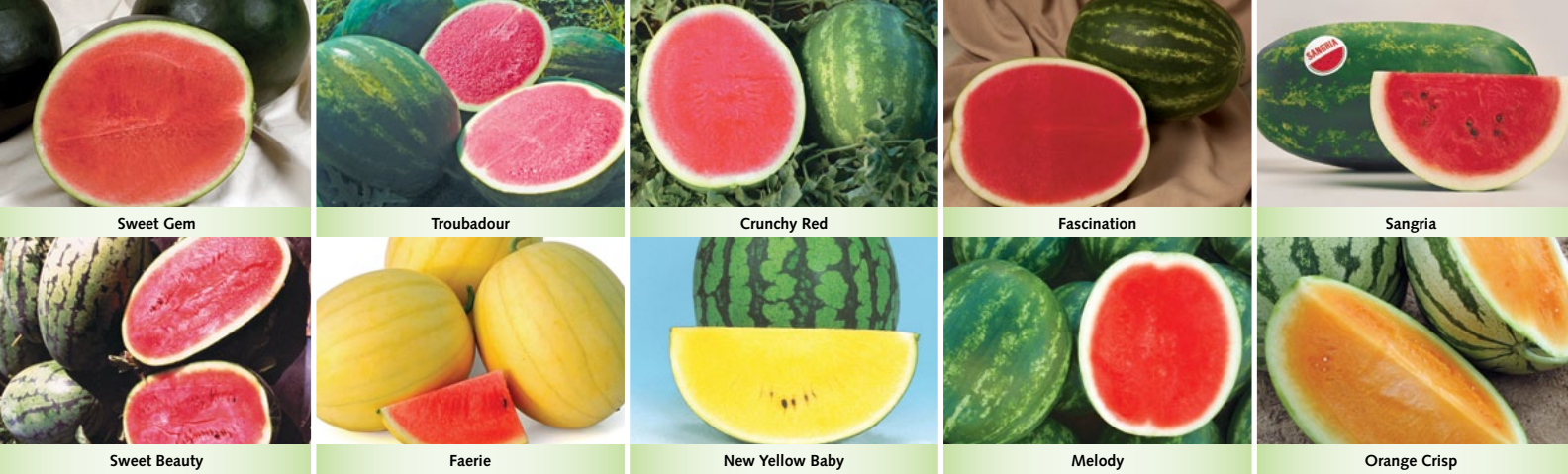
**395F FRISAN** 120 days. F1 hybrid. Everbearing/perennial. Similar in size & taste to Pikan, but has much darker rose pink bloom. Pkt. (15 seeds) \$6.35; 100 seeds \$35.75; 500 seeds \$125.75; 1,000 seeds \$225.00 per M; 5,000 seeds \$198.53 per M.

**395E MILAN** 120 days. F1 hybrid. Vigorous strong-rooted hybrid plant for outdoor production. 25% higher yield than current hybrids. High sugar berries (9.6-10.6) have excellent shelf life. Pkt. (15 seeds) \$6.35; 100 seeds \$35.75; 500 seeds \$125.75; 1,000 seeds \$225.00; 5,000 @ seeds \$198.53 per M.

**395G TOSCANA** 120 days. F1 hybrid. Perennial. Very dark rose bloom. Conical, medium size fruit are produced all summer long. High soluble sugar rate (Brix) of 10%. Pkt. (15 seeds) \$6.35; 100 seeds \$35.75; 500 seeds \$125.75; 1,000 seeds \$225.00; 5,000 seeds & over \$198.53 per M.

NEW	HYBRID TOMATOES High Sugar Types	# seeds per pkt	Pkt	1/32 oz 1 g	1/16 oz 2 g	1/8 oz 7 g	1/4 oz 14 g		
	407 Sweet 100	40	5.75	19.70	30.65	88.60	103.00		
	PASTE TOMATOES Open Pollinated Types	# seeds per pkt	Pkt	1/2 oz 14 g	oz 28 g	1 lb 113 g	1/2 lb 227 g	lb 454 g	5 lb @ per lb
	392 San Marzano	200	2.45	6.80	11.00	32.60	57.45	106.30	100.75
	400 Roma	200	2.45	7.35	11.95	35.30	62.25	115.15	109.15
	418A Veeroma	200	2.45	7.35	11.95	35.30	62.25	115.15	109.15
	HYBRID CHERRY AND PASTE TYPES (M=1,000 seeds)	# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	324H Plum Crimson	10	5.30			66.92	62.99	58.26	54.33
	324T Tachi	40	9.55		41.15	67.48	63.95	52.29	48.75
	329D Picus	10	5.30		39.70	57.89	54.49	50.40	47.00
	330B Smarty	10	5.30		103.15	150.54	141.68	131.06	122.20
	330R Red Candy	10	5.30		104.45	152.44	143.48	132.71	123.75
	331S Sweet Hearts	10	6.35		139.95	204.20	192.19	177.78	165.76
	332X Mariana	40	5.30		32.05	46.80	44.05	40.75	37.99
	333G Golden Rave	10	5.30		84.00	137.71	130.50	106.71	104.55
✓	UT336J Jasper	10	5.30		99.85	163.68	155.11	126.83	124.26
	338 Sweet Million	40	4.10		18.00	29.50	27.95	24.25	23.63
✓	338A Supremo	40	5.30		32.40	53.12	50.34	41.16	38.93
	338C Sweet Gold	10	4.10		21.60	35.41	33.56	29.11	28.37
	338D Sweet Orange	10	5.30		38.25	66.10	62.64	54.33	52.95
	394C Sweet Chelsea	40	4.20		18.80	32.46	30.76	26.68	26.00
	394L Cupid	10	6.35	26.70	105.40	153.83	144.78	133.92	124.87
	394N Honey Bunch Yellow	10	5.30	17.95	66.00	108.20	102.54	83.84	82.14
	394S Sweet Mojo	10	6.35	26.45	104.40	171.16	162.19	132.62	123.66
	394Z Sweet Zen	10	6.35	20.05	79.20	129.84	123.04	100.61	98.57
	400B Daiquiri	40	5.30		24.40	40.04	37.94	31.02	28.93
	418F Sunoma	10	6.35			56.74	53.40	49.40	46.39
	418J Hybrid 46	40	5.30		28.80	47.22	44.74	36.59	34.11
✓	418P Pony Express	40	6.35		43.65	71.58	67.83	55.46	51.71





## DIPLOID HYBRID SEEDED WATERMELONS

**CULTURE:** Sow indoors April 15th-May 1st in 3 in/8 cm Jiffy Strips, .5 in/13 mm deep. Soil temp. is critical, seed requires 5-10 days at 75-80°F/24-27°C. **1,000 seeds/1 oz and up must have a Watermelon Fruit Blotch waiver.**  
**Contact sales.** Both **Accomplish** and **Ace** are pollen producer types used as a pollen source for seedless Watermelons. They are small - not edible types that can easily be recognized and destroyed before Triploids are harvested

**382A YELLOW DOLL** 68 days. Oval Ice Box type. 4.5-7 lbs/2-3 kg, medium green with dark green stripe. Crisp yellow high brix flesh, thin rind.

**384K FAERIE** 70 days. Globe shaped watermelon with creamy yellow skin and pinkish-red flesh. Fruit average 4-6 lbs/2-3 kg, high brix of 11-12. AAS Winner. Pkt (10 seeds) \$4.65; oz \$91.75; 1/4 lb. & over ASK.

**385 SWEET FAVORITE** 72 days. Very popular with bedding plant growers. Red fleshed, oblong 20 lb/9 kg striped fruit is Fusarium and ANTH tolerant. Great taste!

**388Z ACCOMPLICE** 70-95 day. Hybrid. Pollen producer for seedless watermelons. Produces small striped fruit that are not edible and are easily recognized and can be destroyed before Triploids are harvested.

**387N NEW YELLOW BABY** 75 days. Globe shaped 7.75x6.5 in/19x16 cm - 6 lb./2.7 kg personal size melon with tender, juicy 11-12% brix flesh. Pkt. (10 seeds) \$4.65; oz \$78.35; 1/4 lb & over ASK. Similar to Yellow Doll.

**384P PATA NEGRA** 75 days. Excellent ice box size, Sugar Baby type hybrid. Dark green, round 12-15 lb/5.5-7 kg shipper type with bright red solid flesh.

**384A ROYAL SWEET** 85 days. Oblong 21 lb/9.5 kg. light green with medium green stripe, red flesh. Fusarium tolerance.

**388P SWEET BEAUTY** 77 days. A mini type that is small enough to fit in your fridge. 5-7 lbs/2-3 kg. Pkt (10 seeds) \$4.65; oz. \$139.45; 1/4 lb and over ASK.

**384S SANGRIA** 85 days. Allsweet elongated 20-23 lbs/9-10 kg. Dark green with broken light green stripes. Deep red flesh, excellent flavor and high sugars. Intermediate tolerances to Anth and Fusarium

**NEW 384L ACE** 70 days. Hybrid. Pollen producer for seedless watermelons. Green small fruit are not edible and are easily recognized. Provides pollen early enough to pollinate any seedless type.

NEW	HYBRID WATERMELON (Diploid/Seeded)	10 seeds	1,000 seeds	5 M per M	25 M per M	NOTE: Commercial sizes require signed waivers through our commercial sales reps.
	382A Yellow Doll	4.75	115.93	93.34	ASK	
	384A Royal Sweet	N/A	104.34	91.50	ASK	
	384P Pata Negra	4.45	108.51	87.37	ASK	
✓	384L Ace Pollinator	N/A	184.78	148.77	ASK	
	384S Sangria	N/A	91.57	73.72	ASK	
	385 Sweet Favorite	3.20	49.60	39.94	ASK	
	388Z Accomplish Poll	N/A	215.55	173.55	ASK	

WFB causes severe damage to commercial crops below the 40<sup>th</sup> parallel. The source of this bacteria can be diseased soil, weeds, fruit from diseased areas, infected greenhouses or trays, wind, migrating insects, neighboring diseased plants and seed. Seed suppliers and scientists are continually limiting the possibility of diseased seed by screening methods, test procedures and minimum 0/10M WFB indexed seed. Seedsmen cannot be responsible for non-seed sources of this bacterium. Seed is sold in originator 1M growers pkgs. with 0/10M or 0/50M WFB statements. Customer signed waivers are required.

## WATERMELON (Open Pollinated Types)

**387 SUGAR BABY** 75 days. Early, productive and popular, small round ice box type, averaging 7-8 in/19 cm in diameter. Crisp, red flesh is sweet, and flavorful. Pkt. (75 seeds) \$2.45; oz. \$5.15; 1/4 lb. and over ASK.

**378A CRIMSON SWEET** 85 days. Short oval light green fruit with dark stripes average 15-25 lbs/9 kg. Tolerant to Fusarium and Anthracnose. Dark red flesh. Pkt. (75 seeds) \$2.45; oz. \$7.15; 1/4 lb. and over ASK.

## TRIPLOID HYBRID SEEDLESS WATERMELONS

**CULTURE:** Sow indoors April 15th in 3 in/8 cm peat pots or trays. Water trays 48 hours before sowing. Preheat germination room to 90°F/33°C soil temp. Sow seed and place trays in the preheated area for 48-72 hours. When seeds begin to sprout, move to a cooler 80°F/30°C greenhouse, vented area. Keep trays moist for 7 days (not too wet). **TRANSPLANTING:** Use different shaped diploid hybrids (plant 10 days later) to provide male pollen for triploid seedless types. **RATIO:** One pollinator plant for every 3 triploids. Use plastic mulch and drip irrigation.

**388K GYPSY** 75 days. Round, 13-17 lb/6-7.7 kg, red flesh. Uniform. Great taste and appearance. Very high brix, excellent color. Dark green stripes do not fade.

**388W DECLARATION** 76 days. Very high sugar (12% brix), red flesh, oval fruit, green with medium dark stripes. 16-18 lbs/7-8 kg. Excellent internal quality.

**388V MELODY** 79 days. Globe shaped, 14-16 lb/6-7 kg, green melon with darker green stripes. Earlier than Tri-X® Brand 313. Crisp deep red flesh. Tolerant to ANTH and Fusarium 1.

**NEW 384Q SWEET GEM** 78 days. Slightly earlier improved Imagination with nice firm deep red flesh and higher brix - better taste! Black/green Sugar Baby type, round 15 lb/5.7 kg.

**384G COOPERSTOWN** 80 days. Oval, 16-20 lb/7-9 kg red flesh. Green/medium green stripes, heavy yields. Tolerant to ANTH and Fusarium 1.

**384H DISTINCTION** 80 days. Globe shaped fruit with firm red flesh for fresh cut use, 15-18 lbs/6.5-8 kg. Tolerant to Fusarium 1 and ANTH.

**388X TROUBADOUR** 80 days. Blocky 14-17 lb/7.5 kg Crimson Sweet type with excellent deep red interiors. ANTH tolerant. High brix.

**388G REVOLUTION** 80 days. Long blocky, 20-26 lb/9-11 kg. Medium green/dark green stripes. All Sweet type red flesh. Fusarium 1 tolerant.

**388Q FASCINATION** 80 days. Globe shaped 17-21 lb/7.5-9.5 kg striped type with dark red flesh. Some Fusarium and ANTH tolerance. Great taste!

**386L LIBERTY** 85 days. Oval shape 18-20 lb/8-9 kg light green/medium green stripes. Red flesh, high brix, thick rind.

**388T VANESSA** 85 days. Solid dark green, round 5-7 lb/2-3 kg "personal" size type. Red flesh, high brix.

**388U ORANGE CRISP** 92 days. Replaces Orange Sweet. Round oval Jubilee shape. 14-18 lbs, 6-8 kg.

**388R CRUNCHY RED** 90 days. Meets fresh cut standards. Round, blocky 15 lb/7 kg mid green striped fruit. Deep red flesh. Very high brix. ANTH tolerant.

NEW	HYBRID SEEDLESS WATERMELON (Triploid)	10 seeds	1,000 seeds	5 M per M	25 M per M	Commercial size packages are sold only with waivers through our commercial sales representatives.
	384G Cooperstown Hybrid	N/A	224.95	181.12	ASK	
	384H Distinction Hybrid	N/A	309.71	249.36	ASK	
✓	384Q Sweet Gem Hybrid	N/A	440.26	354.47	ASK	
	386L Liberty Hybrid	N/A	345.97	278.55	ASK	
	388G Revolution Hybrid	N/A	435.34	350.51	ASK	
	388K Gypsy Hybrid	12.25	274.93	221.36	ASK	
	388Q Fascination Hybrid	N/A	338.99	272.93	ASK	
	388R Crunchy Red Hybrid	N/A	326.88	263.18	ASK	
	388T Vanessa Hybrid	17.15	418.27	336.76	ASK	
	388U Orange Crisp Hybrid	N/A	331.40	266.82	ASK	
	388V Melody Hybrid	N/A	348.68	280.73	ASK	
	388W Declaration Hybrid	N/A	349.98	281.78	ASK	
	388X Troubadour Hybrid	N/A	330.56	266.14	ASK	

NOTE: Small packets of seedless types contain 5 seeds of the seedless variety and 5 seeds of a seeded type (top section) for proper pollination and are priced accordingly. Growers must purchase a seeded pollinator for 1,000 seed seedless originator packaged varieties. Choose a similar maturity and flesh color with different skin color or stripe as a contrast, if possible, for the seeded pollinators or use the Super Pollinators - **Ace** or **Accomplish**.

Seedless varieties: 10 seed packet contains 5 seeds of seedless type and 5 seeds of male pollinator and is priced accordingly

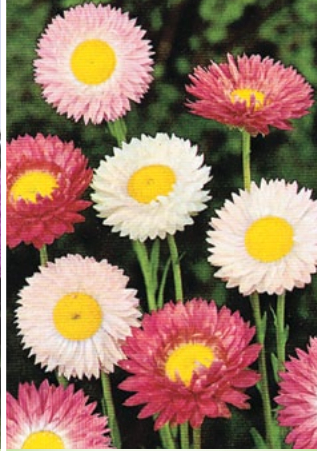


Cooperstown  
Stokes Seeds Inc.





Ageratum - Diamond Blue



Acroclinium - Double Mix



Ageratum - Blue Hawaii 5.0



Alyssum - Easter Bonnet Deep Rose



Alyssum - Easter Bonnet White



Alyssum - Easter Bonnet Mix



## ABUTILON

CULTURE: Approx. 8,500 seeds per oz/28 g. Abutilon is really a tender shrub but is grown as a popular new annual bedding plant. Blooms the first summer in 4 in/10 cm pots, baskets or as a small standard, in gallon containers, in about 11-13 weeks. Taller (24 in/60 cm) woody standards hold over the first winter for a second season. Sow April 1st, germinate 3 to 5 days at 70°F/21°C in high humidity, cover seed lightly. Grow plants at 65-75°F/18-24°C. Flowers from seed in 80 days.

**477 Bella Select Mix F1 hybrid.** (8-14 in/10-35 cm) New select mix. Large 3-4 in/7.5-10 cm pastel blooms. Ivory, lemon, pink, apricot, rose, coral and red. Great for flowering house plant or bedding plant use. Plants bloom continuously indoors or out. 250 seeds \$77.80; 1,000 seeds & over \$221.08 per M.



## ACROCLINIUM



CULTURE: Annual everlasting, dried flower or fresh cuts. Sow outdoors in rows, germinates at 65°F/18°C in 15 days. 8,500 seeds per oz/28 g. 1/8 oz/3.5 g should provide about 800 seedlings.

**482 Double Mix** (14 in/36 cm) Blend of rose, pink and white. Round, flat daisy bloom, yellow center. Pkt. (60 seeds) \$1.90; 1/4 oz. \$3.50; 1/2 oz. \$6.30; oz. \$12.60.



## AGERATUM

CULTURE: 210,000 seeds per oz/28 g. GREENHOUSE: Sow Feb. to April at a soil temp. of 80°F/27°C for 7 days. Do not cover seed as it must have light to germinate. Press seed firmly into seed bed. Use luke-warm water to germinate. Transplant 4 weeks from seeding. Grow plants at 60°F/16°C. Sow approx. 1/256 oz/0.11 g for 800 seedlings. Allow 10-12 weeks from seeding/ sale in paks and 12-14 weeks for 2.25 in/6 cm pots. Spray with Malathion for red spider.



## TALL AGERATUM

**432 Golden Ageratum** (15 in/38 cm) Lonas Inodora. Upright spreading plant habit, which is quite different from all other ageratum. Pkt. (250 seeds) \$1.90; 1/8 oz. \$3.50; 1/4 oz. \$5.05; 1/2 oz. \$9.35; oz. \$14.30.

### HIGH TIDE™

Hybrid (24 in/60 cm) Taller, more vigorous than other ageratum. Provides a dense mounded hedge of color. Self cleaning large Blue Mink type blooms - outlasts standard or hybrid ageratum as a bedding plant. Crop time 12-14 weeks. Single pellets only.

**P437A High Tide Blue P437B High Tide White**  
Pkt. (10 pellets) 5.75; 250 seeds \$53.75; 1,000 seeds & over \$155.99 per M.

## DWARF AGERATUM

**430 Dwarf Blue Bedder** (6 in/15 cm) Standard O/P used for non hybrid paks. Blue Blazer color.

**431 Blue Mink** (10-12 in/25-30 cm) Standard, large flowered fluffy powder blue blooms. Best O/P for cutting or intermediate height borders.

Prices of the above: Pkt. (250 seeds) \$2.20; 1/8 oz. \$4.25; 1/4 oz. \$6.50; 1/2 oz. \$12.10; oz. \$18.55.

**P439 Blue Danube** (6 in/15 cm) Popular mid blue. Pelleted seed only.

Prices for Blue Danube pellets: Pkt. (100 pellets) \$2.80; 1,000 pellets & over \$11.68 per M.



## 4 Easy Easy Ways To Order!

Please see page 1 for Details.



## HYBRID AGERATUM

### TYCOON™ & HAWAII SERIES

(8 in/20 cm) Ideally suited for high density pak production. Extra early series. Crop time 10-12 weeks. Single pellets only.

**P459B Tycoon Blue:** Pkt. (100 pellets) \$3.35; 1,000 pellets & over \$13.35 per M.

**435 Diamond Blue** (6 in/15 cm) Strong base branching plants are very early to flower and well suited to larger 4-6 in/10-15 cm pots or containers 12-16 in/30-40 cm mature plants in the garden. Pkt. (10 seeds) \$2.45; 1,000 seeds & over \$10.95 per M.

**P436P Blue Hawaii 5.0** Improved sky blue version of the original. Dwarf, 6 in/15 cm plants. Pkt. (100 pellets) \$3.35; 1,000 pellets & over \$21.39 per M.

**436A Blue Hawaii** (6 in/15 cm) Blue Danube color. Pkt. (100 seeds) \$2.30; 1,000 seeds & over \$13.53 per M.

### PEARL

(12 in/30 cm) Dark green foliage, early 2 in/5 cm clusters. Needs 50% less growth retardant than others. Available as raw seed or single seed pellets.

**457B Pearl Blue** Rosy blue. Pkt. (100 seeds) \$2.45; 1,000 seeds & over \$6.07 per M.

**P457B Pearl Blue** Single seed pellets: 1,000 pellets & over \$10.36 per M.



## ALYSSUM



CULTURE: Sow Feb.15th-Apr.1st for May blooms. Do not cover seeds. Germinate at 78-82°F/25-28°C soil temp. for 3 days. Grow seedlings at 55°F/13°C. Use well drained soil that is not too high in pH. As blooms appear, give partial shade for the richer colors. DIRECT SEED: Sow outside in late May, thin to 4 in/10 cm apart. 1/8 oz/3.5 g should provide about 1500 seedlings. Allow 6-9 weeks from seeding to sale in paks. Grow plants cool 50°F/10°C for deeper colors. **Multi-seed pellets: Wonderland and Clear Crystals series only.**

**423 Snow Crystals** (4 in/10 cm) A unique white tetraploid. Blooms are large, plants take more heat stress. A good commercial pak type. Pkt. (250 seeds) \$2.35; 1/16 oz. \$13.65; 1/4 oz. \$47.90; oz. \$136.35.

**424 Rosie O'Day** (4 in/10 cm) Standard medium rose pink with white bee. Spreads to 10 in/25 cm. AAS Winner. Pkt. (1,000 seeds) \$2.45; 1/4 oz. \$9.75; oz. \$22.05.

**426 Navy Blue** (4 in/10 cm) Best reselection from Oriental Night. Early dark purple strain. Pkt. (1,000 seeds) \$2.45; 1/4 oz. \$7.25; 1/2 oz. \$10.90; oz. \$17.80.

### CLEAR CRYSTALS®

(6-10 in/15-25 cm) This fragrant Tetraploid series has extra large fragrant flowers. Mounded plants are more vigorous than standard diploid varieties. Spreads 12-14 in/30-35 cm. **Multi-seed pellets only.**

**P513A Lavender Shades P513C White**  
**P513B Purple Shades P513 Clear Crystals Mix**

Prices for Clear Crystals colors & mix: 25 pellets \$2.45; 250 pellets \$5.95; 1,000 pellets & over \$14.98 per M.



## ALYSSUM



### WONDERLAND®

(3 in/8 cm) Seven colors and a mix bred to complement each other in growth habit, earliness and color intensity. Earlier blooming. **Both raw seed and multi-pellets are available for Wonderland colors and mixes - add 'P' in front of code when ordering pellets.**

**427 Deep Rose**

**427B White**

**427D Lavender**

**427E Deep Purple**

**427H Blue**

**427J Deep Pink**

**427P Pink**

Prices for Wonderland seed: Pkt. (250 seeds) \$2.05; 1,000 seeds \$3.09; 5,000 seeds & over \$2.58 per M.

Prices for Wonderland Multi-pellets: 1,000 pellets & over \$23.48 per M.

**427M Wonderland Mix** Formula blend of above.

**427Z Wonderland Mulberry Mix** Bright blues, purples & whites. *Available as Raw seed only.*

**426G Giga White** Much larger blooms than Wonderland White on 6 in/5 cm plants. **Available in raw seed and multi-pellets - add 'P' in front of code when ordering pellets.**

Prices for Giga White seed: Pkt. (250 seeds) \$2.05; 1,000 seeds \$3.09; 5,000 seeds & over \$2.58 per M.

Prices for Giga White Multi-pellets: 1,000 pellets & over \$35.04 per M.

### EASTER BONNET SERIES

Now available in a full color range of 7 separate colors and a formula mix. Plants are uniformly compact, very early flowering and fragrant across all the colors. They stay tidy much longer than any other alyssum - making this series excellent for borders or massed beds. Lemonade is a creamy light yellow; Peach is a pastel peach; Violet is a solid purple. Plants average 6-10 in/15-25 cm in height and spread 12-14 in/30-35 cm. **Available in raw or filmcoated seed - add 'S' in front of code when ordering filmcoated.**

**438A White**

**438B Violet**

**438C Lavender**

**438D Deep Rose**

**438E Deep Pink**

**438G Lemonade**

**438H Peach**

**438M Easter Bonnet Mix** Now a formula blend of 7 fragrant, compact colors.

Prices for Easter Bonnet colors & mix: Pkt. (250 seeds) \$2.75; 1/16 oz. \$10.45; 1/4 oz. \$31.50; oz. \$108.08.

Prices for Easter Bonnet filmcoated seed: 5,000 seeds & over \$2.30 per M.



Alyssum - Clear Crystals White



Easter Bonnet Lemonade





Angelonia - Serena Mix

Tall Aster - Tiger Paws Mix

Tall Aster - Matsumoto

Amaranthus - Caudatus

Unique Aster - Hulk

Amaranthus - Tricolor

Aster - Serenade



## ANGELONIA



Hybrid (10-12 in/25-30 cm) First seed-grown angelonia can be grown easily from seed. Plants are shorter than vegetative types. An excellent choice as a mid-height bedding plant, like salvia, for hot/humid or hot/dry areas. Branches well without pinching - continuous bloomer - no deadheading required.

### SERENA®

CULTURE: Crop time 13-14 weeks. Start Feb.15-Mar.10 in the greenhouse and grow with impatiens. Germinate at 74°F/23°C for 4-5 days. Use 288 cell paks. Grow plants at 68-80°F/20-26°C days and 64-66°F/18-19°C nights. Transplant into 4-4.5 in/10-11 cm pots. Pellets only.

#### P623A Lavender

#### P623B Lavender Pink

#### P623C Purple

#### P623D White

#### P623E Blue

#### P623 Mix

Prices for Serena colors & mix: Pkt. (10 seeds) \$4.75; 250 seeds \$60.85; 1,000 seeds & over \$170.38 per M.



## DWARF ASTERS



Popular for cutting. Some fusarium wilt (aster yellows) tolerance, but may be problematic with short varieties with no disease tolerance. Change seeding location each year or use fungicide before sowing to control most soil-borne diseases. Seed size and germ. varies widely. 1/8 oz. provides about 800 seedlings, see package for germ. test results.

For Best Dwarf Pot Asters Daylength is critical to plant height. Longer 15 hour days will keep plants short. Short daylength causes taller plants, later flowering. Dates are approx. for 43rd parallel (Detroit, MI) only.

Sow seed	To 2¼" Jiffy	To 4" Pot	Bloom & Sale
November 1 <sup>st</sup>	November 25 <sup>th</sup>	January 10 <sup>th</sup>	April 1 <sup>st</sup>
December 20 <sup>th</sup>	January 20 <sup>th</sup>	March 1 <sup>st</sup>	May
February 1 <sup>st</sup>	February 20 <sup>th</sup>	April 1 <sup>st</sup>	June
March 10 <sup>th</sup>	April 1 <sup>st</sup>	May 15 <sup>th</sup>	July
April 20 <sup>th</sup>	May 10 <sup>th</sup>	June 17 <sup>th</sup>	August

### POT 'N PATIO

(6 in/16 cm) For 4 in/10 cm winter, spring or fall greenhouse pot sales. Dark green, bushy, uniform, plants produce fully double, rounded 2.5 in/6 cm blooms about 90 days from seed. Also use day neutral plants for spring or fall beds in cool, short daylengths.

#### 628C Blue

#### 628E Scarlet

**628M Pot 'n Patio Mix** Formula blend of blue, rose, scarlet and white

Prices for Pot'n Patio colors & mix: Pkt. (25 seeds) \$2.20; 500 seeds \$14.85; 1,000 seeds & over \$19.21 per M.

### MILADY®

(10 in/25 cm) Milady, like Ball's Pixie Princess, flowers 10 days earlier than Dwarf Queen or Pinocchio with better wilt tolerance. Plants produce huge 3 in/8 cm curved mum-like flowers. Use in beds or pots. Flowers approx. 120 days from seed.

**654 Milady Mix** Formula blend of deep blue, rose, scarlet, lilac, red and white. Pkt. (240 seeds) \$2.40; 1/16 oz. \$7.45; 1/4 oz. \$14.35; 1/2 oz. \$24.50; oz. \$43.00.



## DWARF WALDERSEE ASTER

(8 in/20 cm) Late summer bloomer, for borders, pot culture. Compact plants. Dahlia shaped blooms smother plants in rare colors and shades not found in other dwarf asters. Mix of deep yellow, fiery scarlet red, appleblossom pink, brilliant rose, deep carmine red, mid blue, and pure white.

**626 Pinocchio Mix Dwarf** (8 in/20 cm) Matures 120 days from seed, before Dwarf Queens, after Milady. 1.5 in/4 cm blooms cover plants. Nice color range. Pkt. (50 seeds) \$2.70; 1/16 oz. \$11.60; 1/8 oz. \$20.20; 1/4 oz. \$29.90; 1/2 oz. \$59.80; oz. \$119.60.



## TALL SPIDER ASTERS



**615 Unicum Mix Tall** (24 in/60 cm) Largest spider aster flower (4 in/10 cm) has double quilled blooms in 5 colors. Stake strong stems for commercial cut flower production. Pkt. (25 seeds) \$2.20; 1/4 oz. \$4.65; 1/2 oz. \$8.05; oz. \$11.95.



## TALL ASTERS

Popular for cutting. Some fusarium wilt (aster yellows) tolerance, but may still be problematic with short varieties with no disease tolerance. Change seeding location each year or use fungicide before sowing to control most soil-borne diseases. Seed size and germ. varies widely. 1/8 oz provides about 800 seedlings. See package for germ. test results.

**639 Duchesse Formula Mix** (24 in/60 cm) Peony Aster Elite blend of rose, blue, yellow, white, sky blue, scarlet, silver-blue, silver-rose. Huge, fully double 4 in/10 cm peony blooms on extra thick stems. Great for Sept. cut flowers. Pkt. (50 seeds) \$2.20; 1/16 oz. \$3.75; 1/4 oz. \$10.15; 1/2 oz. \$17.70; oz. \$25.40; 1/4 lb. \$101.60.

**630 Crego Finest Mix** (20 in/50 cm) Improved Crego Giant. This old favorite has large, shaggy, curled blooms and strong stems. Balanced mix of 6 colors. Pkt. (50 seeds) \$2.20; 1/4 oz. \$3.45; 1/2 oz. \$6.00; oz. \$8.85; 1/4 lb. \$35.40.

**635 Tiger Paws Mix** (30 in/75 cm) Seastar. Spider Aster X Giant Crego. Huge 6 in/15 cm fully double, swirling football mum type blooms. Sturdy, well branched plants. Top ranked cut flower sell on sight! Pkt. (50 seeds) \$2.20; 1/8 oz. \$6.10; 1/4 oz. \$11.40; 1/2 oz. \$21.10; oz. \$32.45.

**660 Mixed Powderpuffs** (36 in/91 cm) The whole plant can be cut for a complete bouquet. Fully double 2.5 in/6 cm blooms lose yellow centers at maturity. Mix of white, shell pink, rose, peach, crimson, azure and mid blue. Pkt. (50 seeds) \$2.20; 1/4 oz. \$7.60; 1/2 oz. \$13.20; oz. \$18.95; 1/4 lb. \$75.80.

### LARGE SINGLE FLOWERED TYPES

Extra large single blooms on sturdy stems. For cutting or tall backgrounds.

**640 Serenade Mix** (30 in/75 cm) Medium early flowering small semi-double daisy flowered type only. 1 in/3 cm in diameter. In 9 separate colors - an excellent commercial cut flower! Plants are tolerant to fusarium wilt (aster yellows). Colors include red, white, rose, blue, carmine, light blue, scarlet and 2 bicolors - blue/tipped white and rose/tipped white. Pkt. (100 seeds) \$2.20; 1,000 seeds & over \$8.61 per M.



## GIANT PRINCESS DOUBLE MATSUMOTO

(24 in/60 cm) Popular fusarium (aster yellows) tolerant Princess type. All colors have contrasting yellow centers. Upright plants have strong stems. Tolerant to heat and some diseases. Blooms 90 days from seed. Ultimate cutflower! Mix is formula blend of 14 colors: red, blush, dark blue, lavender, light blue, pink, apricot, rose, salmon, white, scarlet, yellow, and two bicolors - blue/white and pink/white.

#### 637K Rose

#### 637P Dark Blue

**637X Matsumoto Mix** Formula blend of 14 colors

Prices for Matsumoto colors & mix: Pkt. (100 seeds) \$2.20; 1,000 seeds & over \$11.35 per M.

**634 Standy Mix** (30 in/75 cm) The most disease tolerant tall Princess type. Quality stems for commercial cutting. Plants have a strong tolerance to Fusarium (aster yellows) and Verticillium wilts. Medium size 4 in/10 cm double Princess type blooms. Formula blend of 9 colors.

Pkt. (25 seeds) \$2.90; 250 seeds \$8.50; 1,000 seeds & over \$21.99 per M.



## UNIQUE GREEN ASTER



CULTURE: 24 in/60 cm unique green cut flower without petals. Crop time 14-15 weeks from seeding. For earlier May flowers sow in January. For normal aster flowers in September sow by May 1st. Use 3-5 seeds per plug or 8 in/20 cm pot. Germinate in 12 days at 68-70°F/20-21°C. Cover seed lightly with vermiculite or soilless mix. Transplant plugs or seedlings 4 weeks later. Grow cool at 60°F/16°C.

**631 Hulk** Unique cut flower features pale green blooms without petals. Likes partial sun or some shade for good color. Pkt. (100 seeds) \$2.75; 1,000 seeds \$24.34.



## AMARANTHUS



CULTURE: 40-50,000 seeds per oz/28 g. GREENHOUSE: Sow Mar.15th in sandy, well drained soil for late April paks. Beautiful foliage sells on sight. DIRECT SEED: outdoors April 20th for fall cut flowers. Useful bedding plant for extra dry areas.

**608A Early Splendor** (3.5 ft/107 cm) Narrow bright red top leaves with bronze lower leaves. Very early.

**608B Tricolor** (3 ft/90 cm) Joseph's Coat. Narrow top leaves are red and yellow with green bottom leaves.

Each of the above: Pkt. (300 seeds) \$1.90; 1/16 oz. \$3.00; 1/4 oz. \$7.75; 1/2 oz. \$15.50; oz. \$31.00.

**608G Illumination** (3.5 ft/107 cm) Wider top leaves are scarlet orange and yellow with green leaves below. Pkt. (300 seeds) \$2.20; 1/16 oz. \$6.00; 1/4 oz. \$15.55; oz. \$62.20.

**608D Caudatus** (3 ft/91 cm) Love Lies Bleeding. Ropes of red blooms trail from main stems. Can use as dried flower. Pkt. (300 seeds) \$2.20; 1/16 oz. \$5.20; 1/4 oz. \$13.45; 1/2 oz. \$26.90; oz. \$53.80.



## AMMI MAJUS

CULTURE: Delicate white 5 in/12 cm flower clusters. Sow indoors Mar.1st at 59°F/15°C or direct seed in beds outdoors May 1st. Germinates in 10 days. Cut flowers are ethylene sensitive; vase life 3-5 days. Sell blooms unopened, strong stems. Great filler!

**484 Queen of Africa** (36 in/91 cm) A refined selection of Queen Anne's Lace. Approx.47,600 seeds per oz/28 g. Pkt. (300 seeds) \$1.50; 1,000 seeds & over \$2.06 per M.



## BALSAM (Lady Slipper)



CULTURE: 3-4,000 seeds per oz/28 g. 1/8 oz/3.5 g produces about 400 seedlings. Allow 6-8 weeks from seed to sale in paks. GREENHOUSE: Sow April 1st at 80°F/27°C, press seed into soil; do not cover (seed needs light to germinate). Partially cover trays for 8-10 days until seed sprouts. Transplant 12-15 days later. Grow plants cooler at 60°F/16°C.

**695 Double Camellia Flowered Mix** (18 in/46 cm) Double flowers are carried well above bushy foliage.

**696 Extra Dwarf Tom Thumb** (12 in/30 cm) Extra dwarf strain of Color Parade that blooms in paks.

Prices of each of the above varieties: Pkt. (50 seeds) \$2.20; 1/8 oz. \$4.50; 1/2 oz. \$8.75; oz. \$12.55.



Tall Aster - Duchesse



Aster - Pot 'N Patio



Unicum Mix



Tall Aster - Crego Finest Mix



Ammi - Queen of Africa  
Stokes Seeds Inc.





Green Foliage - Bada Bing Mix



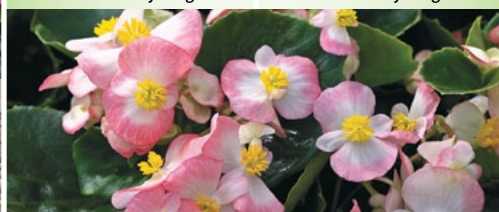
Green Leaf - BabyWing Pink



Bonze Leaf - BabyWing White



Bronze Foliage - Bada Boom Rose Bicolor



Green Foliage - Bada Bing Rose Bicolor



Bronze Leaf - Cocktail Mix



## FIBROUS BEGONIAS



**CULTURE:** 1/64 oz/5 g - 33,000 seeds; 65-75°F/18-24°C; 2-3 weeks; sow Jan. for 4 in/10 cm May sales. Production of begonias from seed is easy, by following cultural directions closely. To germinate, maintain constant temp. of 70°F/21°C. Use light fibrous soil of equal parts light soil, sand, peat moss or leaf mold. Soil must never dry until germination begins. After germination, the seedlings must be kept gently moist. European growers use the following trick since seed is very fine. Cover very slightly with big sand or light gravel. (You should be able to still see soil), this helps keep constant humidity and protects emerging seedlings from direct sun, also protects the seed when watering. After germination a minimum night temperature of 60-65°F/16-18°C. A weekly feeding of 1/2 strength complete soluble fertilizer is necessary to keep them growing. After transplanting into flats, use a spacing of 2x2 in/5x5 cm. Use full strength soluble fertilizer and grow until they start to crowd. Then put into 3 in/8 cm or 4 in/10 cm pots. Begonias are light sensitive, light 14-18 hours per day. Continue lighting after germination, or they will not grow and will gradually disappear. Cover seed flats on bright days with one thickness of newspaper. Dec. or Jan. sowing produces for spring bedding, sow July for Christmas and mid winter sales.



## BRONZE FOLIAGE HYBRIDS



### BADA BOOM™

(8 in/20 cm) Best dark bronze leaf type in our trials. Matures 10-14 days earlier than the market leader. All colors bloom together - loaded with blooms! Crowthine 12-15 weeks during short day length. Pelleted seed.

**P674A Pink**  
**P674C Scarlet**  
**P674E Rose Bicolor**

**P674B Rose**  
**P674D White**  
**P674M Mix**

Bada Boom pellets: 1,000 pellets & over \$7.59 per M.



### COCKTAIL™



Plants are quite bushy and vigorous like the Tausendschoens. Dark bronze leaves, 5 days later than the Rio types. Available as raw or pelleted seed. Add 'P' in front of code when ordering pellets.

**706A Vodka Scarlet**  
**706C Whisky White**  
**706D Cocktail Mix** Best bronze leaf mix

**706B Gin Rose-pink**  
**706E Brandy Pink**

Prices for Cocktail seeds & pellets: 1,000 seeds & over \$9.09 per M.



### BIG®



### World's Largest Fibrous Begonia Flower

Allow 13-14 weeks from seeding to bloom for 6-8 in/15-20 cm plants in 10 in/12 cm pots or 3 plants per gallon container. For fully mature 12 in/30 cm plants for landscaping or park use, allow 16 weeks from seeding. Blooms are absolutely huge, averaging 3 in/7.5 cm in diameter (30% larger than Lottos). Golf ball sized flowers are held above the large dark bronze or bright green leaves for maximum contrast. Use mature for landscapes or extra large containers. Excellent for combination plantings, window boxes and hanging baskets. Pelleted seed.

**P676A Big Red Bronze Leaf**  
**P676B Big Red Green Leaf**  
**P676C Big Rose Bronze Leaf**



Prices for BIG pellets: Pkt. (10 pellets) \$9.50; 250 pellets \$66.10; 1,000 pellets & over \$183.55 per M.

Quality Seed Since 1881



## GREEN FOLIAGE HYBRIDS



### BADA BING®

(8 in/20 cm) Best green leaf type for early spring crops. Matures 10-14 days earlier than the market leader. All colors bloom together - loaded with blooms! Crop time 12-15 weeks in the northeast. Pelleted seed.

**P672A Pink**  
**P672C Rose Bicolor**  
**P672E White**

**P672B Rose**  
**P672D Scarlet**

**P672M Bada Bing Mix** Formula blend of above  
**P673 Bada Total Mix** Formula blend of Bing and Boom (green and bronze foliage)

Bada Bing pellet prices: 1,000 pellets & over \$7.59 per M.

### AMBASSADOR

Previous early market leader in North America. Large flower size, rich green leaf color on compact, 8 in/20 cm plants. Flowering time of all the colors is well matched. Plants are base branching and more heat tolerant than other varieties. Pelleted seed.

**P717D Scarlet**  
**P717J Coral**  
**P717K Ambassador Mix** Blend of above

**P717E White**

Prices for Ambassador pellets: 1,000 pellets & over \$7.11 per M.



### DRAGON WING®

(12-15 in/30-38 cm) Amazing plant vigor. Huge glossy green wing-shaped leaves contrast nicely with large pendulous scarlet or pink blooms. Plants are very heat tolerant and used in hanging baskets or long stems trained to trellises in full sun or semi shade locations. Pelleted seed.

**P701P Pink**

**P701 Red**

Prices for Dragon Wing pellets: 250 pellets \$60.95; 1,000 pellets & over \$169.25 per M.



### BABYWING®

(12-15 in/30-38 cm) Upright, small flowered - 2 weeks earlier version of Dragon Wing type. Ships well, loves heat! Available in green and bronze leaf colors. Pelleted seed.

**P675A Pink/Green Leaf** **P675B White/Green Leaf**  
**P675P White/Bronze Leaf**

Prices for BabyWing pellets: 250 pellets \$60.95; 1,000 pellets & over \$169.25 per M.

### SANTA CRUZ™



**Santa Cruz - Begonia boliviensis** Excellent new species, ideal for hanging baskets, patio containers or garden landscape. Plants average 12 in/30 cm in height; spread 16-20 in/40-50 cm; have dark green arrow shaped leaves and large bright red-orange conical shaped blooms. Plants like full sun or partial shade and flower under long daylength (10-14 hours). Total crop time 14-16 weeks. Plug crop 7-8 weeks in 288 trays; Transplant to finish 14-16 weeks. For 10 in/25 cm baskets (3-5 plugs per basket) will take about 8-10 weeks. **CULTURE:** Single seed pellets @ approx. 85% germ. Use well drained media with balanced fertilizer (pH 5.5-6.2). Maintain high moisture, germinate in 14 days @ 73°F/23°C; do not cover pellets; use additional light (50W per m<sup>2</sup>) to aid germ. Reduce temps to 70°F/21°C; lower humidity, use tempered water on seedlings and continue long daylength (14 hour) lighting. Grow @ 64°F/18°C. Transplant plugs 7-8 weeks after germ. Avoid soluble salts in your soil.

**P678 Santa Cruz - Sunset** Bright red-orange blooms, dark green leaves. Pkt. (10 pellets) \$9.50; 250 pellets \$89.80; 1,000 pellets & over \$263.40 per M.



Santa Cruz - Sunset



Bada Bing White



Bronze Leaf - 'BIG' Rose



Dragon Wing Pink



Bada Boom White



Green Leaf - 'BIG' Red



Bada Bing Rose



PRINTABLE ORDER FORM



Nonstop Mocca Cherry



Fuseables- Bacopa Utopia



Green Foliage - Nonstop Mix



Begonia - Illumination Orange



Bells of Ireland



## TUBEROUS ROOTED BEGONIAS



**CULTURE:** Sow in Dec.-Jan. 15th for June sales and Nov.15th for Mother's Day. Most tuberous types take a week longer to germinate than fibrous types. Normal germination takes about 20 days, you can cut this in half with heat lamps. Use timed lights, limiting day length to 15 hours. Longer periods cause leggy or stunted seedlings. This type of growth check will cause seedlings to try to form tubers almost at once - at this point they will stop growing and die. Germinate at 75°-78°F/24°-26°C at night. Use sterile soil medium like a Jiffy mix and sand mix. Keep seeds moist, watering with luke warm water. If using raw seeds - cover them up slightly with a "dusting" of fine sand to hold them in place. Shade young seedlings with cheesecloth from direct sun as they germinate. If using pellets with a misting system - do not cover them and keep them moist until they sprout. If you are growing plugs - do not let seedlings dry out or they will become stunted and form tubers in the seedling stage! Seed sold by count.



### PENDULA BEGONIA

#### ILLUMINATION®

Long flexible, cascading stems with large semi double blooms. Pelleted seed only.

**P704A Salmon Pink**

**P704B Orange**

**P704D Rose**

**P704E White**

**P704G Peaches & Cream**

**P704H Golden Picotee**

**P704J Illumination Mix** 6 color mix

Prices for Illumination pellets: Pkt. (50 pellets) \$4.75; 250 pellets \$21.75; 1,000 pellets & over \$60.41 per M.



### DWARF BRONZE FOLIAGE



#### NONSTOP™ MOCCA

F1 hybrid, superior chocolate leaf colored companion for our popular green leafed Nonstop originals. The Nonstop Mocca series has 4 in/10 cm fully double flowers. Six vibrant colors contrast richly with dark coffee colored foliage. Pelleted seed only.



**P720S Cherry**

**P720T Pink Shades**

**P720U Deep Orange**

**P720W Scarlet**

**P720X White**

**P720Y Yellow**

**P720Z Nonstop Mocca Mix** Blend of above colors

Prices for Nonstop Mocca pellets: Pkt. (50 pellets) \$4.75; 250 pellets \$16.30; 1,000 pellets & over \$45.30 per M.

### DWARF GREEN FOLIAGE TYPE

#### NONSTOP™

Nonstops are perhaps the number one choice for window boxes in Europe. This series produces 100% double flowers, 3.5 in/9 cm across on 12 in/30 cm plants. Use for sales of 4 in/10 cm pots in late summer or spring as a bedding plant. Pelleted seed only.

**P719B Apricot Orange**

**P719C Pink**

**P719E Yellow**

**P719G White**

**P719H Orange**

**P719K Appleblossom**

**P719L Rose Petticoat**

**P719S Deep rose**

**P719T Yellow w/red back**

**P719U Red**

**P719 Nonstop Mix**

Prices for Nonstop pellets: Pkt. (50 pellets) \$4.75; 250 pellets \$15.70; 1,000 pellets & over \$43.55 per M.

### SEMI DWARF GREEN FOLIAGE



**CULTURE:** Use a well drained, disease-free, soilless medium with a pH of 5.8-6.2 and some initial fertilizer to aid germination. Press multi-seed pellets lightly into the media. Do not cover pellet. Water thoroughly to help dissolve the pellet. Germinate at 72-78°F/22-26°C for 10-12 days. Saturated media and high relative humidity are critical for successful germination. Sow one pellet per cell in 288 or larger plug tray. Begin fertilization at 50-75 ppm N (ammonia nitrate) 5 days after seedlings appear, 2-3 times per week. Do not allow seedlings to dry out or wilt, but allow medium to dry out between waterings. Transplant 7-8 week old seedlings into larger containers. As plants mature, keep day temp. 65-75°F/18-24°C; night temp. 62-67°F/16-19°C. Allow media to drain to normal moisture. No pinching or growth regulators needed.

**P677 Gryphon** (14-16 in/36-41 cm) Unique, shiny dark green veins on medium green, hand-size leaves have a tropical appearance. Mounded, upright plants spread 16-18 in/41-46 cm, and thrive at temps above 40°F/4.4°C in sun or shade. Use mature plants indoors or out, in 10 in/25 cm pots or gallon containers. Does not flower. Multi-seed pellets. 100 pellets \$27.50; 1,000 pellets & over \$205.02 per M.



## BACOPA



**CULTURE:** Approx. 34,020 multi-pellets per oz/28g. First Bacopa from seed rather than cuttings. Crop time 10-12 weeks. Leave seed uncovered after sowing and mist well. Germinate 4 days at 68-74°F/20-23°C. Grow at 60°F/15°C days, 55°F/13°C nights. Use 4.5 in/11 cm pots or 10-12 in/25-30 cm hanging baskets. Flowers in 8-10 weeks for baskets. Heat tolerant - likes full sun. Not for landscaping.

**P663A Blutopia® Blue**

**P663B Snowtopia® White**

Prices for Bacopa colors: Pkt. (10 pellets) \$5.05; 100 pellets \$25.75; 1,000 pellets & over \$157.03 per M.



Easy-to-grow Fuseables™ precision multi-pellets are formulated to germinate and grow a balanced mix of Blutopia and Snowtopia for a more natural looking combination of blue and white bacopa from the same precision multi-pellets with a 95% germination standard. Crop time is about 8-12 weeks from sow to finish. Perfect for hanging baskets or large patio containers. Use 3-5 plugs per pot. Press precision multi-pellets into the soil surface.

**P1901A Utopia** Blue and white seeds in the same pellet. Pkt. (10 pellets) \$5.75; 100 pellets \$30.05; 1,000 pellets & over \$191.53 per M.

## BEANS (Ornamental Climber)

**698 Scarlet Runner** (10 ft/3 m) A rapid climber covered with attractive bright red blooms. The green beans are quite edible. 2 oz. \$2.95; 1/2 lb. \$5.10; lb. & over \$7.35 per lb.

**698A Hyacinth Bean** Dolichos lablab (10 ft/3 m) Dense green spade shaped leaves with distinctive light mauve or purple flowers which mature short purple podded peas. Sow indoors in peat pots May 1st, transplant outdoors or sow direct June 5th. Great dense climbing vine for fences, outhouses, junk piles, etc. Pkt. (25 seeds) \$3.75; 2 oz. \$15.25; 1/2 lb. \$44.20; lb. & over \$88.40 per lb.



## BELLS OF IRELAND



**CULTURE:** 4,000-5,000 seeds per oz/28 g. Pre-chill seed at 50°F/10°C for 5 days. Sow seed in sandy soil April 1st, germinates irregularly in 5 weeks. Alternate soil temp. between 50-85°F/10-29°C. Grow at 60°F/16°C. Keep moist, sow outside May 1st, thin to 12 in/30 cm apart.

**711 Bells of Ireland** (2 ft/60 cm) Long stems covered with green, bell-like 2 in/5 cm blooms. Excellent for dried bouquets or cut flowers. Filmcoated seed.

Pkt. (100 seeds) \$1.85; 1,000 seeds & over \$4.57 per M.



## BRACHYCOME



### SWAN RIVER DAISY

**CULTURE:** Sow outdoors May 15, 1/8 in/3 mm deep. Sow indoors in peat pots April 15.

#### SPLENDOR

(10 in/25 cm) Unique, fragrant, dwarf bush, single flowered daisy. Used for borders, rock gardens, window boxes, massed beds or cut flowers. Needs rich soil, lots of sun.

**728 Purple**

**728A White**

Prices for Splendor Purple & White: Pkt. (250 seeds) \$2.15; 1/64 oz. \$5.35; 1/32 oz. \$9.35; 1/16 oz. \$13.35; 1/4 oz. \$53.40.



Brachycome - White



Begonia - Gryphon



Bacopa - Blutopia Blue



PRINTABLE ORDER FORM

Stokes Seeds Inc.



Calendula - Pacific Beauty Mix



Candytuft - Giant White Hyacinth Flowered



Calliopsis - Finest Mix



Carnation - Enfant de Nice Blend



## CALENDULA



CULTURE: 3,500 seeds per oz/28 g. .25 oz/7 g provides about 700 seedlings. Germinate at 75-65°F/24-18°C day and night temps. for 5-10 days in darkness, .25 in/6 mm deep, cover seed. Sow March - April for July cutting. June 15th for fall blooms. Thin to 12 in/30 cm apart.

**739 Pacific Beauty Mix** (18 in/46 cm) Popular for bedding or florist outdoor cutting. Long stems, double flowers, heat tolerant. A great background for fall mums. Pkt. (100 seeds) \$2.20; 1/4 oz. \$3.85; oz. \$11.00.



## DWARF CALENDULA

Approx. 5,500 seeds per oz/28 g. These types are used for 4 in/10 cm pots or formal bedding combinations in cooler climates. Fiesta is recommended for bedding and the Bon Bons for pots. All are responsive to B-Nine to encourage dwarf growth. Allow 8 weeks from seed to sale for paks and 10 weeks for pots.

**741 Fiesta** (12 in/30 cm) A bushy, vigorous dwarf plant. Wider color range, 2 in/5 cm blooms. Pkt. (50 seeds) \$2.20; 1/4 oz. \$2.95; oz. \$6.70.

**741A Touch of Red Mix** (14 in/36 cm) A bicolor blend of red, yellow and orange, each petal with a red tip. Double 2.5 in/6 cm blooms. Pkt. (50 seeds) \$2.20; 500 seeds \$4.40; 1,000 seeds & over \$8.34 per M.

## BON BON™

12 in/30 cm bushy plants are perfect for 4 in/10 cm or 6 in/15 cm pots and gallon containers. Large 2.5 in/6 cm double blooms are slightly smaller than Calypso types. The Bon Bon series blooms 10 days earlier than Fiestas.

**747A Orange**

**747B Bright Yellow**

**747C Bon Bon Mix** Formula mix of lemon, apricot, yellow, and orange

Prices for Bon Bon colors & mix: Pkt. (50 seeds) \$2.20; 500 seeds \$4.40; 1,000 seeds & over \$8.34 per M.

## METRIC WEIGHTS

Since Stokes is a major supplier in U.S.A. of flower and vegetable seed, we have had to retain Imperial weight measurement to serve both customer groups. The following list of equivalents may help you:

1/512 oz. = .06 g	1/64 oz. = .44 g	1/4 oz. = 7 g
1/256 oz. = .11 g	1/32 oz. = .89 g	1/2 oz. = 14 g
1/128 oz. = .22 g	1/8 oz. = 3.6 g	oz. = 28 g



Calendula - Bon Bon Orange



Carnation - Can Can Scarlet



Coreopsis - Brown Eyes



Carnation - Dwarf Fragrance



Carnation - Chabaud's Improved



Candytuft - Candycane Mix



## CARNATION



1/16 oz/1.8 g should provide 500 seedlings. Our special selection of carnations are grown for us by a carnation specialist in Europe. Our extensive carnation trials at 'Stokes' have proven, year after year, that our strains will delight the most discriminating grower. CULTURE: Approx. 200 seeds per pkt. Hybrids 10 seeds per pkt. 15,000 per oz/28 g. Sow Feb. 15th - March 15th for July blooms. Freeze seed for 5 - 7 days before sowing. Germinate at alternating temperatures of 70°F/21°C days and 60°F/16°C nights, for 7 days. Plant seed 1/8 in/3 mm deep and cover. Sow thinly. Transplant 4 weeks after seeding, keep well ventilated. Sow outside May 15th, thin in 20 days to 8 in/20 cm apart. Allow 10-12 weeks from seed to sale for paks and 12-14 weeks for dwarf hybrid pot types. Use 4 in/10 cm pots.



## DWARF CARNATION

**761 Dwarf Fragrance** (15 in/38 cm) Best dwarf O/P mix for bedding plant growers. Same 2.25 in/6 cm double bloom as hybrids. Sturdy stems are long enough to cut. Six fragrant colors. Pkt. (200 seeds) \$2.20; 1/8 oz. \$7.15; 1/4 oz. \$12.50; oz. \$35.80.

## DWARF HYBRID CARNATION

**766 Can Can Scarlet** (18 in/45 cm) 2 in/5 cm Scarlet "knee-high" fragrant carnation for use as a bedding plant or for cut flowers. Crop time 4-5 months to bloom. AAS Winner. Pkt. (10 seeds) \$5.95; 100 seeds \$30.90; 500 seeds \$115.50; 1,000 seeds & over \$194.08 per M.



## CALLIOPSIS

24 in/60 cm plants with medium sized, single 2.5 in/6 cm annual blooms are used for cut flowers and wild flower plantings.

**738 Calliopsis Finest Mix** (24 in/60 cm) Standard tall daisy-like cut flower or wildflower. Pkt. (250 seeds) \$2.20; 1/4 oz. \$2.75; oz. \$5.35; 1/4 lb. \$21.40.



## DWARF COREOPSIS

CULTURE: Sow indoors by April 1st. Germinate in 65-75°F/18-24°C soil for 3 weeks. Sow outdoors in late April, thin to 10 in/25 cm apart, blooms late July. Perennial in zones 6 - 8.

**737A Brown Eyes** (12-16 in/30-40 cm) Single yellow, red-brown center. Pkt. (100 seeds) \$2.20; 1/16 oz. \$6.00; 1/4 oz. \$14.95; oz. \$59.80.

**765 Enfant de Nice Blend** (16 in/40 cm) Standard medium height O/P blend for bedding plant sales. Stems are stronger, plants are shorter than Chabauds. Blend of 10 colors. Double flower, scented blooms. Pkt. (200 seeds) \$2.45; 1/8 oz. \$6.10; 1/4 oz. \$10.70; 1/2 oz. \$19.85; oz. \$30.50.

**770 Chabaud's Giant Double Improved Mix** (18 in/46 cm) Extra large fringed blooms with a much wider color range than Enfant de Nice types. For commercial cutting. Outdoor commercial cut flower production should be lightly trellised to prevent wind damage. Pkt. (200 seeds) \$2.45; 1/8 oz. \$6.00; 1/4 oz. \$10.50; oz. \$30.00.



## CANDYTUFT



Umbellata dwarf annual candytuft can be used as a bedding plant for a scented border or for rock gardens. Use the taller hyacinth type as a background bedding plant or cut flower. CULTURE: 9,500 seeds per oz/28 g. For greenhouse May pots, sow umbellata type Dec. to Jan. Sow hyacinth type for cutting from Oct. to Jan. for Feb. to Memorial Day. Germinate at 70°F/21°C soil temp. for 7 days. Transplant immediately, grow at 50°F/10°C. Blooms 6 weeks from outdoor seeding.

**755B Candycane Formula Mix** (12 in/30 cm) Replaces Flash Mixed with a similar variety. Suitable for mass plantings. Uniform plant habit. Compact, dome-like plants are used for borders, rock gardens, etc. Blend of rose, pale pink, lilac, red, white, and purple. Blooms from June until frost. Pkt. (275 seeds) \$1.85; 1,000 seeds & over \$4.45 per M.

**756 Giant White Hyacinth Flowered** (15 in/38 cm) Best strain for fragrance and continuous supply of summer cut flowers. Pkt. (50 seeds) \$2.70; 1/4 oz. \$16.70; oz. \$44.30.





Celosia - Fresh Look Series



Celosia - Punky Red



Celosia - Kimono Formula Blend



Celosia - Triangle Mix



Chrysanthemum - Carinatum Mix



Tall Celosia - Kurume Corona



Chrysanthemum - Snowland



Chrysanthemum - Single Mix



## CELOSIA



**CULTURE:** Plumosa or feathered class has two different types. Dwarf strains are used for informal bedding effects. Tall types are sometimes preferred to salvia for background plantings. The taller plumosa types also are great for fall cut flowers or dried arrangements. **GREENHOUSE:** Dec. sowings for florists' pots only. Do not sow before April 1st for bedding plants. Germinate at 70-80°F/21-27°C soil temp. for 5 days. Use luke warm water at all times when watering. 1 oz/28 g sows 16 (12"x20 in/30x51 cm) flats at 600-700 seedlings per flat. Sow as thinly as possible 1/8 in/3 mm deep, in sandy soil, cover seed. Grow seedlings at 70°F/21°C. Keep in a well ventilated area and avoid cold drafts. Control damping off with applications of Captan every 5 days. Transplant at same depth as original seedlings, not too deep. **DIRECT SEEDING:** Sow outdoors May 15th for June blooms 1/8 in/3 mm. deep, thinning tall types to 16 in/40 cm apart - dwarf types 8 in/20 cm apart.



### DWARF PLUMOSA TYPES

#### KIMONO

A true dwarf type developed primarily for pots. Plumages show 6-7 weeks after seeding and plants remain about the same height throughout the season. Larger plumes on bushy 10 in/25 cm plants. Approx. 45,000 seeds per oz/28 g. Red is the only color with bronze leaves - all the rest have green leaves.

**774A Red** Bronze leaves **774B Yellow**

**774C Rose** **774D Orange**

**774E Cream** Creamy yellow **774J Cherry**

**774L Salmon Pink** Rosey pink **774K Scarlet**

**774 Kimono Formula Blend** Blend of above colors  
Prices for Kimono colors & mix: Pkt. (75 seeds) \$2.45;  
1,000 seeds & over \$6.84 per M.

#### GLOW

Approx 31,200 seeds per oz/28 g. Similar in size to the 10-12 in/25-30 cm Kimono series - but provides a well-branched bushy plant that helps to protect tender root systems from intense summer heat. Crop time 11-12 weeks. Last color available in this series.

**753A Carmine** Pkt. (50 seeds) \$2.45; 1,000 seeds & over \$11.57 per M.

#### ICECREAM

(10-12 in/25-30 cm) Well branched plants have extra vigor in 4 in/10 cm pots or in flower beds. Striking colors do not fade in heat. Plants have larger plumes than Kimono or Glow. Transplant into pots 5 weeks after seeding. No growth regulators needed. Filmcoated seed.

**7682 Formula Mix** Blend of 6 strong colors

Prices for IceCream mix: Pkt. (50 seeds) \$2.45; 1,000 seeds & over \$11.82 per M.

#### FRESH LOOK

(14 in/35 cm) Fresh Look has an improved, well-branched green leaf plant that helps to protect tender roots from intense summer heat. Blends well with dark leaf New Look types. Outstanding outdoor performance! Filmcoated seed.

**750E Gold** AAS Winner **750D Orange**

**750C Red** AAS Winner **750B Yellow** AAS Winner

Prices for Fresh Look colors: Pkt. (75 seeds) \$2.45; 1,000 seeds & over \$10.86 per M.

**750A New Look™** (16 in/40 cm) Scarlet plumes, bronze foliage. AAS Winner. Pkt. (75 seeds) \$2.45; 1,000 seeds & over \$10.86 per M. Filmcoated seed.



**777A Arrabona Red** (14 in/35 cm) Excellent drought tolerant, intermediate height, on sturdy red-orange heat loving plants. Exceptionally long flowering type - for borders or containers. Pkt. (15 seeds) \$2.45; 250 seeds \$7.00; 1,000 seeds & over \$21.41 per M. Filmcoated Seed.



### TALL PLUMOSA TYPES



#### CENTURY

(27 in/70 cm) Our best tall plumosa type. Great as a bedding plant for colorful tall backgrounds or for commercial cut flower use. Nice, full 12 in/30 cm feathery plumes with green leaves. Matures 80 days from sowing.

**751A Red**

**751B Yellow**

**751 Mix** Blend of cream, flame, red, rose, yellow

Each of the above: 1,000 seeds & over \$9.77 per M.



### WHEAT CELOSIA (SPICATA)



**CULTURE:** A unique plumosa spicata or wheat-feather type. 30,000 seeds per oz/28 g. **GREENHOUSE:** Sow indoors in late April, 5 weeks before transplanting outdoors. Germinate in warm 80°F/27°C soil. Increase germination by soaking seeds in a 0.2% solution of potassium nitrate for 5 minutes, dry seed and sow. Slim stems, 28 in/70 cm plants. Harvest tassels young in mid August, colors fade fast.

**749J Flamingo Feather** (18-26 in/45-65 cm) Light pink/white. Pkt. (50 seeds) \$1.90; 1,000 seeds & over \$4.09 per M.

**777 Punky Red** (28 in/70 cm) Dark red. Pkt. (50 seeds) \$2.90; 250 seeds \$5.35; 1,000 seeds & over \$12.78 per M. Filmcoated seed.

#### KOSMO

(8 in/20 cm) First genetically dwarf spicata-wheat celosia type - excellent for pot or pak culture. Compact bushy plant produces a short central spike surrounded by many smaller spikes creating a mass of color above waxy dark green leaves. Excellent for pot or patio containers or bedding plant use. Sow Jan.-July for April-Oct. sales - plants flower from seed in 12-14 weeks. No pinching or growth retardant required. Ships easily as a pot plant with long shelf life. Filmcoated seed.

**777D Vanilla**

Prices for Kosmo Vanilla: Pkt. (15 seeds) \$2.45; 250 seeds \$8.55; 1,000 seeds & over \$26.07 per M.



Celosia - Arrabona Red



Celosia - Chief Mix



## CRISTATA TYPES



The CRISTATA or cockscomb class has three major types, Dwarf Amigo Mix for pots, the taller Chief Mixed with larger combs, and the unique narrow or ribbon combed tall Triangle type which is used by cut and dried flower growers.

### DWARF CRISTATA TYPE

#### AMIGO

(6 in/15cm) Extra dwarf plants with dense crested combs in vibrant colors. Excellent for pots or bedding. Filmcoated seed.

**772 Amigo Mix** A blend of magenta, mahogany red, bright rose, scarlet, and yellow. Pkt. (75 seeds) \$2.20; 1,000 seeds & over \$9.43 per M.

### TALL CRISTATA TYPES

**767 Prestige Scarlet** (18 in/45 cm) Lots of 3 in/8 cm wide red combs for cutting or bedding. AAS Winner. Pkt. (75 seeds) \$2.20; 1,000 seeds & over \$6.87 per M.

**759A Kurume Corona** (40 in/100 cm) Gold/red. 1,000 seeds & over \$4.33 per M.

**752 Chief Mix** (40 in/100 cm) Tall plants with huge 6 in/15 cm cauliflower shaped combs. 6 colors. AAS Winner. Pkt. (75 seeds) \$2.20; 1,000 seeds & over \$6.33 per M.

**752K Triangle Mix** (40 in/100 cm) Bombay type narrow paint brush or ribbon shaped combs, tall sturdy stems. Cut flower lasts 3 weeks. Blend of 5 colors. Pkt. (75 seeds) \$2.20; 1,000 seeds & over \$7.88 per M.



## CHRYSANthemum



#### PAINTED DAISY

**CULTURE:** 9,000 per oz/28 g. 1/8 oz/3.5 g should provide 600 plants. Sow indoors March 1st at 60°F/16°C soil temp. 1/8 in/3 mm deep at 6 seeds per in/25 mm, cover with soil. Keep in dark for 10 days. Sow outdoors in rows May 15th, thin 8 in/20 cm apart.

**810 Single Annual Mix** (24 in/60 cm) Large, single blooms include yellow, pink, purple and rust bicolors.

**812 White Carinatum Dunnettii Choice Mix** (24 in/60 cm) A brightly colored mix of single and double flowers in white, yellows, bronzes and crimson.

Prices for Painted Daisy mixes: Pkt. (150 seeds) \$1.90; 1/4 oz. \$4.55; 1/2 oz. \$7.95; oz. \$12.20.

### MINIATURE BUTTON TYPES

**CULTURE:** Multicaule - 17,000 seeds per oz/28 g. Snowland (Paludosum) - 32,000 seeds per oz/28 g. Sow both indoors Feb. 15th for May-June blooms. Germinate at 60°F/16°C for 14 days in darkness.

**849 Multicaule** (10 in/25 cm) Masses of tiny, single yellow blooms. A great ground cover or for rock gardens. Pkt. (150 seeds) \$2.20; 1/8 oz. \$8.10; 1/4 oz. \$12.70; oz. \$50.80.

**817 Snowland** (10 in/25 cm) Large 1.5 in/36 mm white, single blooms, yellow centers. Improved White Button. 100 seeds \$1.90; 1,000 seeds & over \$4.33 per M.



**Growing Information**  
available at  
[www.StokeSeeds.com](http://www.StokeSeeds.com)





Cosmos - Double Click Mix



Cosmos - Cosmic Mix



Cynoglossum - Firmament



Cleome - Sparkler Blush



Centaurea - Sweet Sultan Mix



Centaurea - Frosted Queen Mix



Cosmos - Sonata Mix



Cosmos - Picotee



## CENTAUREA



## Bachelor Button or Cornflower

Both tall and short centaurea make excellent cut flowers. Flower size will increase dramatically if plants are disbudded - labor intensive, but results are well worth the effort. Bedding plants are sold green. CULTURE: 6,000 per oz/28 g. 1/8 oz/3.5 g should provide 600 plants. For greenhouse cut flowers, sow taller types Sept. 15th in raised beds, 12 in/30 cm apart for Feb. blooms; Nov./Jan. for spring blooms. Direct seed in paks for bedding plants March 15th. Outdoor cut flower crops should be sown Apr. 1; thin to 8 in/20 cm apart. Does not transplant well. Pre-chill seed at 40°F/4°C for 5 days before sowing. Germinate in darkness for 7 days at 65-70°F/18-21°C. Do not over fertilize or grow in rich soil - plants become vegetative.

## TALL STRAINS

**786 Blue Boy** (30 in/76 cm) Pkt. (25 seeds) \$2.20; 1,000 seeds & over \$5.72 per M.

**787 Finest Mix** (30 in/76 cm) Red, white, blue, rose, rose pink. Pkt. (350 seeds) \$1.90; 1/4 oz. \$2.90; oz. \$6.45; 1/4 lb. \$25.80; lb. \$103.20.

**780 Sweet Sultan Mix** (30 in/76 cm) Popular large, fluffy thistle-like flowers from the Imperialis species. Unique cut flower. Plants prefer dry locations. White, pink, lilac, yellow scented blooms. Pkt. (350 seeds) \$1.95; 1/4 oz. \$4.10; 1/2 oz. \$7.60; oz. \$10.15; 1/4 lb. \$40.60; lb. \$162.40.

**796 Frosted Queen Mix** (36 in/90 cm) Picotee or bicolor combinations of red/pink, violet/pale blue, lilac/dark blue and pure white make up the mix. Pkt. (75 seeds) \$2.20; 1/4 oz. \$3.80; oz. \$10.95.



## DWARF STRAINS



**795 Polka Dot Mix** (16 in/40 cm) Standard extra dwarf mix for bedding plant sales. Red, blue, white, rose, lilac. Heavier blooming than taller types. Pkt. (350 seeds) \$2.20; 1/4 oz. \$2.85; oz. \$7.15; 1/4 lb. \$28.60; lb. \$114.40.

**790 Jubilee Gem** Dark blue. Pkt. (25 seeds) \$2.20; 1,000 seeds & over \$4.08 per M.



## CLARKIA

CULTURE: 80,000 seeds per oz/28 g. Sow outdoors in early April in clumps of about 50 seeds, very thinly. Space out plants by thinning 6 in/15 cm apart. Likes a cool semi shaded location. For early blooms, sow indoors March 1 at 65-70°F/18-21°C directly into peat pots. Used as medium height background in parks or estate plantings. Easy to grow for cut flower production. Blooms last 6-9 days after cutting. Use above the 40th parallel (Columbus, Ohio).

**820 Mix** (24 in/60 cm) A choice mixture, shades of salmon, pink, mauve, carmine, white and red. Plants flower from seed in 90 days. Pkt. (1,000 seeds) \$1.95; 1/4 oz. \$2.45; oz. \$5.50.

## COBAEA

Used by nurseries as a climber for spring bedding plant sales with morning glories. CULTURE: 300 per oz/28 g. Sow in pots anytime or outdoors May 20th. Must be staked.

**818 Scandens** Popular purple climber. Pkt. (25 seeds) \$3.65; 250 seeds \$30.65; 1,000 seeds & over \$63.54 per M.



**Volume Purchase Discounts**  
Please see page 1 for details.



## COSMOS



Popular tall border bedding plant or mid summer cut flower. Likes full sun. Cosmics will bloom in paks or pots 8 weeks from seed to sale. Other types are sold green (no flowers) as bedding plants. CULTURE: Seed size varies, oz/28 g contains 4,000-5,500 seeds, depending on type. Sow outdoors in warm sandy soil about May 15th. Germinate at 75-80°F/24-27°C soil temp. for 15 days. Plant 1/4 in/6 mm deep, cover lightly, sow in groups of 3-4 seeds, 18 in/46 cm apart. For earlier blooms sow indoors March 15th.

## SMALL FLOWERED DWARF

## COSMICS

(12 in/30 cm) Allow 8 weeks from seed in paks or 11-12 weeks in 4 in/10 cm pots. Free flowing semi double 1.5 in/3.6 cm blooms.

**838B Orange AAS Winner**

**838C Red**

**838A Yellow**

**838 Cosmic Mix**

Prices for Cosmics colors & mix: Pkt. (40 seeds) \$2.60; 250 seeds \$6.85; 1,000 seeds & over \$18.67 per M.

## NOVELTY TALL TYPES

**843 Polidor Mix** (3 ft/90 cm) Tall, small flowered mix of red, gold and orange. Semi double 2 in/5 cm blooms, bushy upright plants.

**845 Seashells Mix** (3 ft/90 cm) Distinctive tubular flower type with unique trumpet shaped individual florets. Colors include pink, rose, cream and red. Blooms during 10 hour fall days. In short day areas (south & west) sow April 1st for July blooms.

Prices for Polidor & Seashells mix: Pkt. (40 seeds) \$2.40; 1/4 oz. \$2.95; oz. \$8.05.

## LARGE FLOWERED TALL



**844E Double Click Mix** (4 ft/120 cm) Likes full sun and rich soil. Great fully double and semi-double large flowers make this variety excellent for tall backgrounds or cut flowers all summer long. Pkt. (40 seeds) \$2.35; 1/4 oz. \$22.45; oz. \$61.05.

**834A Daydream** (3 ft/90 cm) Pale pink/deep rose center

**834B Picotee** (4 ft/120 cm) Rosy red/white center

Prices for Daydream & Picotee: Pkt. (60 seeds) \$2.20; 1/8 oz. \$9.75; 1/4 oz. \$16.70; oz. \$45.45.

## SENSATION

(3 ft/90 cm) Sensations are tetraploid. Large 3.5 in/9 cm single blooms.

**830 Sensation Mix** A blend of crimson, pink, white, and rose with crimson center. Pkt. (25 seeds) \$1.90; 1/4 oz. \$2.25; oz. \$6.10; 1/4 lb. \$24.40.

## SONATA

(20-25 in/50-64 cm) Bedding or cut flower type. Wind tolerant bushy plants have twice as many 2.5 in/7 cm single blooms as Sensation. Sonata colors and mix are supplied in Premium grade seed.

**834E Carmine**

**834F Pink Blush**

**834C White**

**834D Sonata Mix** A formula blend of red, white, pink, rose, and blush, all with gold centres.

Prices for Sonata colors & mix: Pkt (25 seeds) \$2.45; 250 seeds \$16.70; 500 seeds \$28.80; 1,000 seeds & over \$45.46 per M.

## CLEOME (Spider Flower)

## SEMI DWARF HYBRIDS

## SPARKLER

First commercial F1 hybrid semi dwarf cleome. Sturdy, more wind tolerant, 3 ft/1m plants are bushier than standard O/Ps. May be sold in flower in 6 in/15 cm or larger containers. Crop time 10-12 weeks. Makes a spectacular background hedge of color. Goldsmart™ primed enhanced seed for easier germination with better rates.

**R835A Blush Pink/white**

**R835B Lavender**

**R835C Rose**

**R835D White**

**R835 Sparkler Mix**

Prices for Sparkler colors & mix: Pkt. (10 seeds) \$4.45; 100 seeds \$21.90; 500 seeds \$87.90; 1,000 seeds & over \$138.83 per M.



## TALL OPEN POLLINATED

Used as a tall border bedding plant for spring sales. Also a good cut flower. CULTURE: 13,000 per oz/28 g. 1/4 oz/7g should provide about 2,000 seedlings. Sow March 5th - April 15th for May sales and July blooms. Pre-chill seed at 40°F/4°C for 5 days. Sow in cold frames, alternating temps. of 85°F/29°C days and 65°F/18°C nights. Transplant in 4 weeks. Sow outdoors May 1, thin 16 in/40 cm apart.

**827 Helen Campbell** (36 in/90 cm) Pure white

**826A Rose Queen** (36 in/90 cm) Bright rose pink

Prices for Helen Campbell & Rose Queen: Pkt. (200 seeds) \$2.20; 1/4 oz. \$4.60; oz. \$13.95; 1/4 lb. \$55.80.

**829 Purple Queen** (40 in/102 cm) Lilac purple

**829A Mixed Colors** (36 in/90 cm) Blend of 5 colors

Prices for Purple Queen & Mixed Colors: Pkt. (25 seeds) \$2.20; 1,000 seeds & over \$4.62 per M.



## CYNOGLOSSUM

## Chinese Forget-Me-Not

Plants are similar in appearance to the perennial myosotis. CULTURE: 8,400 per oz/28 g. Scatter seeds thinly April 10th in cool semi-shaded areas. Gray-green foliage.

**839 Firmament** (16 in/40 cm) Bright rich blue, dwarf plant. AAS Winner. Pkt. (150 seeds) \$2.20; 1/4 oz. \$3.55; oz. \$11.60.



Cosmos - Seashells Mix



Clarkia - Mix





Coleus - Kong Red



Coleus - Kong Mosaic



Coleus - Black Dragon



Coleus - Premium Sun Crimson Gold



Dahlberg Daisy - Golden Fleece



Tall Dahlia - Double Mix



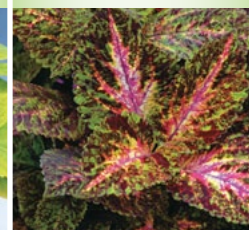
Premium Sun Watermelon



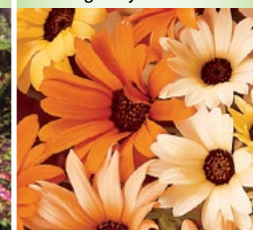
Coleus - Chocolate Covered Cherry



Coleus - Giant Exhibition Limelight



Coleus - Giant Exhibition Marble



Dimorphotheca - Aurantiacia Hyb.



Tall Dahlia - Double Mix



## COLEUS



**CULTURE:** Seed size varies 90,000 -110,000 seeds per oz/28 g. For early pot culture sow in Dec. For spring sales sow Feb. 1 - March 15. Allow 8-10 weeks from seed to sale for bedding plants; 12-14 weeks for pots. Germinate seed at 70°-75°F/21°-24°C for 10-12 days. Press seed into soil; do not cover (seed needs light to sprout). Maintain moisture and warm soil during germination. Transplant 15 days after germination, grow plants cooler at 60°F/16°C. Coleus damps off easily - drench plants with fungicide. Semi shade assures darker colors.



### KONG®

(18 in/46 cm) Very large blistered leaves; unique color patterns, well branched plants. Use 4.5 in/11 cm pots. Full shade. Pelleted seed. PVP.

**P824Q Green Cream/green** **P824S Rose Lime edge**  
**P824T Salmon Pink Green edge** **P824K Mosaic Tricolor**  
**P824U Scarlet Green edge** **P824R Red Green edge**  
 Prices for Kong colors: Pkt. (10 pellets) \$4.40; 250 pellets \$52.30; 1,000 pellets & over \$150.61 per M.



### PREMIUM SUN



(20 in/50 cm) A unique new type of coleus for full sun or shade! Well branched multi-colored foliage looks great all summer long. Flower spikes do not appear until later than other types. Use for 5 in/13 cm pots or 3 plants per gallon container. Pelleted seed.



**P1811G Mighty Mosaic** Tricolor similar to Mosaic with darker red, green, yellow splashes of color.  
**P1811A Burgundy to Green** **P1811D Lime Delight**  
**P1811B Crimson Gold** **P1811E Rose Lime Magic**  
**P1811C Green Halo** **P1811F Watermelon**  
 Prices for Premium Sun colors: Pkt. (10 pellets) \$5.35; 250 pellets \$47.65; 1,000 pellets & over \$137.22 per M.



### GIANT EXHIBITION

Unique Rainbow type colors. Plants average 16 in/40 cm in height with Rainbow sized leaves.

**825P Palisandra** Uniform black/burgundy velvet leaves are 6 in/15 cm long, 4 in/10 cm wide at maturity.  
**825S Rustic Red** Rusty brownish red, thin yellow edge  
**825Q Limelight** Pure lime green leaves  
**825T Marble** Green leaves, white center, marbled all over with red  
 Prices for Giant Exhibition colors: Pkt. (25 seeds) \$3.85; 500 seeds \$37.25; 1,000 seeds & over \$66.92 per M.

## UNIQUE COLORS

**P824E Chocolate Covered Cherry** (14 in/35 cm) Tricolor rose center, mahogany background plus green edge. Pelleted seed.

**P824C Chocolate Mint** (12 in/30 cm) Each chocolate colored leaf is finely edged with a mint green border. Pelleted seed.

**P824D Dark Chocolate** (24-30 in/60-76 cm) Rich, dark purple foliage appears 'chocolate' in shady locations.

Prices of the above three: Pkt. (10 pellets) \$4.40; 100 pellets \$24.80; 1,000 pellets & over \$144.91 per M. Pelleted seed.

**822J Striped Rainbow** (18 in/46 cm) A novel mixture of striped, colored leaf, rainbow types. Pkt. (50 seeds) \$2.45; 1,000 seeds & over \$7.31 per M.

**825 Rainbow Blend** (18 in/46 cm) Our own special formula blend of the Rainbow colors. Pkt. (100 seeds) \$2.20; 1/128 oz. \$3.50; 1/64 oz. \$6.10; 1/32 oz. \$11.35; 1/16 oz. \$17.50.

**831Z Black Dragon** (12 in/30 cm) Tongue shaped serrated leaves. Red/black edges. Pkt. (50 seeds) \$2.45; 500 seeds \$7.55; 1,000 seeds & over \$9.72 per M.



### WIZARD®

Dwarf 10 in/25 cm base branching versions of the Rainbow type.

**831A Golden Gold**  
**831B Pastel Orange/red/green**  
**831C Pineapple Green/red splash**  
**831E Scarlet/green** **831F Mosaic Tricolor**  
**831G Velvet Red** **831J Jade Ivory/green**  
**831K Sunset Apricot**  
**831L Coral Sunrise** Pinks/olive/bright green edge  
**831M Wizard® Mix** Formula blend of 10 colors  
 Prices for Wizard colors and mix: Pkt. (50 seeds) \$2.45; 500 seeds \$7.45; 1,000 seeds & over \$9.56 per M.



Under the Sun - Crimson Gold and Premium Sun Lime



Chocolate Symphony- Chocolate Mint and Premium Sun Lime

A new idea to make two color combos easier to produce. Each precision multi-pellet contains both colors of Premium Sun Crimson Gold and Premium Sun Lime (Under the Sun) or Chocolate Mint and Premium Sun Lime (Chocolate Symphony) at 95% min. germ. which germinate and easily grow together. Crop time 8-12 weeks sow to finish. See pages 60 and 79 for more Fuseables™!

**P1901E Chocolate Symphony** Chocolate Mint and Premium Sun Lime for partial shade hanging basket locations. Use 3-5 plugs or pellets per container. Pkt. (10 pellets) \$5.75; 100 pellets \$30.05; 1,000 pellets & over \$191.53 per M.

**P1901B Under The Sun** For partial shade or sunny hanging basket locations. Use 3-5 plugs or pellets per container. Pkt (10 pellets) \$5.75; 100 pellets \$30.05; 1,000 pellets & over \$191.53 per M.



## DIASCIA (Twin Spur)

**CULTURE:** Annual in northeast. Small ¾ in/1.9 cm flowers resemble dwarf snaps. Use for rock garden borders or large containers. Crop time 10 weeks for paks.

**1804 Pink Queen** (12 in/30 cm) Bushy plants, lots of flowers. 113,000 seeds per 28 g/oz. Pkt. (50 seeds) \$2.70; 1/32 oz. \$4.95; 1/16 oz. \$8.55; 1/8 oz. \$13.10.

### DIAMONTE™

4,900 seeds per oz/28 g. Hybrid bushy plants, branch well without pinching. Grow like pansies! Better than vegetative varieties. Cover pellets with vermiculite to germinate.

**894B Coral Rose AAS Winner** **894C Lavender Pink**  
 Prices for Diamonte colors: Pkt. (10 seeds) \$2.45; 100 seeds \$5.50; 1,000 seeds & over \$36.57 per M.



## DAHLIA



**CULTURE:** 3,000 seeds per oz/28 g; ¼ oz/7 g should provide 500 seedlings. Sow Feb.15th-April 15th for May sales and July blooms. Allow 8-12 weeks from seed to sale for paks and 10-13 weeks for pots. Germ. averages 70% at best. Use a well-drained soil with a PH of 5.8-6.2. Do not over water! Soil should be barely moist to the touch. Do not let plants wilt. Plants need at least 12 hours of daylight to form buds. Short daylight causes plants to produce tubers - not blooms! Germinate at 70°F/21°C days and 65°F/18°C nights for 5-7 days. Transplant 18 days later - smaller seedlings are usually the best colors in a mix.

**899 Garden Pride** (15 in/37 cm) Uniform blooming, semi-double separate colors. Very uniform plants. Blend of many shades of red, orange, yellow, pink, rose and white. Similar to Calico Mix. Pkt. (25 seeds) \$2.45; 250 seeds \$8.85; 500 seeds \$12.35; 1,000 seeds & over \$18.69 per M. Filmcoated seed.

### FIGARO®

(12 in/30 cm) Standard double and semi-double O/P for bedding plant sales. Large 2.5 in/6 cm blooms, bushy, uniform plants, dark green leaves.

**898C Yellow** **898D White** **898E Orange**  
**898F Red** **898H Violet** **898 Mix**

Prices for Figaro colors & mix: Pkt. (25 seeds) \$2.45; 250 seeds \$10.10; 500 seeds \$16.95; 1,000 seeds & over \$24.28 per M.

**898A Harlequin** (12 in/30 cm) A collarette-type single bloom with an extra inner crown, or collar of contrasting colors. Many two-tone solid colors and bicolors. 2.5 in/6 cm early bloom. Pkt. (25 seeds) \$3.85; 250 seeds \$12.95; 500 seeds \$21.75; 1,000 seeds & over \$31.15 per M.



### TALL GRANDIFLORA TYPE

These taller types average 3 ft/91 cm in height and are used for cut flower production or bulbs.

**865 Large Flowering Double Mix** Choice tall, double flowered type. Individual plants should be staked to prevent wind damage. Pkt. (50 seeds) \$2.20; 1,000 seeds & over \$8.04 per M.



## DAHLBERG DAISY



**CULTURE:** 180,000 seeds per oz/28 g. Sow indoors Feb.1-15th for May plants. Germinate at 65°F/18°C for 14 days. Press seed into surface, do not cover. Transplant about 25 days after germination, grow cool at 65°F/18°C. Seeds germinate irregularly at about 65° and should be sown in flats - not plugs. Sell plants green or with early color. Allow 9 weeks for pak sales, 12 weeks for baskets. Flowers mid summer to fall; full sun.

**892 Golden Fleece** (8 in/20 cm) Masses of 1 in/2.5 cm yellow daisies with a crested yellow center on cascading, bright green, fern-like foliage. Likes sunny, dry locations. Use in rock gardens or hanging baskets. Pkt. (50 seeds) \$2.20; 1/16 oz. \$4.55; 1/8 oz. \$7.85; 1/4 oz. \$12.10 1/2 oz. \$24.20.



## DIMORPHOTHECA

**CULTURE:** 10,000 per oz/28 g. To germinate, vary soil temperature between 55-60°F/13-16°C for 7 days. Sow outside in May.

**890 Aurantiacia Hybrids** (12 in/30 cm). Single daisy-like flowers in shades of orange, buff and yellow. Also known as African Daisy. Pkt. (200 seeds) \$2.20; 1/4 oz. \$8.90; 1/2 oz. \$12.95; oz. \$20.20.



Diascia - Coral Rose



Dahlia - Harlequin

Stokes Seeds Inc.





Dianthus - Ideal Select Mix



Dianthus - Dynasty Rose Lace



Dianthus - Diana



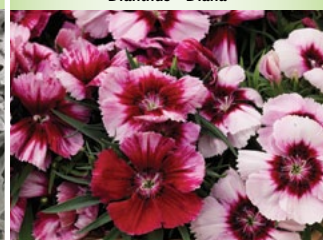
Dianthus - Super Parfait Red Peppermint



Dianthus - Amazon Neon Purple



Dusty Miller - Silverdust



Dianthus - Venti Parfait Crimson Eye



Erysimum - Citrona Orange



Eschscholzia - Mission Bells



## HYBRID DIANTHUS



**DIANTHUS BARBATUS**, commonly referred to as **SWEET WILLIAM**, is listed in the perennial section on page 97. Mid height and tall varieties include **Sweet** and **Dynasty** series. Dwarf types include **Barbarini** and **Diabunda** series.

**CULTURE:** Approx. 26,000 seeds per oz/28 g. Sow from Feb. 20th-March 15th for May blooms in paks. Plant seed 1/8 in/3 mm deep, cover lightly. Germinate in 70°F/21°C soil for 8-10 days. Always use luke warm water. Lower seedling temp. 50°F/10°C as soon as seedlings appear. Transplant in 4-5 weeks at the same seedling depth. Keep well ventilated to prevent damping off. 1/32 oz should provide about 600 seedlings, depending on seed size (which varies). **DIRECT SEED:** outdoors in early May for cut flowers. Thin 8 in/20 cm apart. Keep seed pods picked off to prolong flowering. **M = 1,000 Seeds or Pellets.**

## CARPET

(6 in/15 cm) Large 1.75 in/5 cm blooms on self cleaning plants with excellent summer heat tolerance. Blooms about a week after Super Parfaits.

**888A Crimson** **888E Snow White**

**888B Fire Salmon/scarlet**

**879 Snowfire Cherry/white**

**888C Oriental Crimson/dark eye**

**888 Carpet Series Mix** Formula blend

Prices for Carpet colors & mix: Pkt. (30 seeds) \$2.70; 250 seeds \$7.10; 1,000 seeds & over \$18.96 per M.

## SUPER PARFAIT™ VENTI PARFAIT™

(6 in/15 cm) A week earlier than the original Parfaits - stronger plants and the same blush colors with contrasting center eyes. Venti Parfaits produce larger blooms than Super Parfaits. Crop time 15-18 weeks.

**875C Super Parfait Raspberry** Crimson/darker eye

**875D Super Parfait Strawberry** White/scarlet eye

**875E Super Parfait Red Peppermint** White/cherry eye

**1812 Venti Parfait Crimson Eye** Super-sized blooms. Plants tolerate higher density production and cooler greenhouse temperatures than Corona Cherry Magic which it replaces.

Prices for Parfait colors: Pkt. (30 seeds) \$3.40; 250 seeds \$13.10; 1,000 seeds & over \$35.04 per M.

## DIAMOND

(6 in/15 cm) An excellent 10-12 week crop from seeding. Cold and heat tolerant. Blooms with Super Parfaits but with quicker blooms on the lateral stem, making flowers appear more dense. Avoid transplanting all dianthus types too deep as stems will rot. Plants get too soft with ammonium nitrate use. Use calcium nitrate for compact plants.

**1815A Coral**

**1815D Scarlet**

**1815 Mix**

Prices for Diamond colors and mix: Pkt. (30 seeds) \$3.15; 250 seeds \$9.65; 1,000 seeds & over \$25.72 per M.

**874L Diana** (6 in/15 cm) Combines earliness and a compact plant habit with large single lavender picotee frilled edge blooms. Great for potted plant use or as a mature dwarf. 10 in/25 cm base branching plant for massed outdoor garden beds. *Fleuroselect* award winner. Pkt. (25 seeds) \$3.35; 250 seeds \$14.25; 1,000 seeds & over \$38.07 per M.

**1817 Supra Purple** (12 in/30 cm) An early short stemmed cut flower with lots of fringed 1.5 in/4 cm blooms. Crop time 12 weeks. AAS Winner. Pkt. (25 seeds) \$3.40; 100 seeds \$6.45; 250 seeds \$14.25; 1,000 seeds & over \$38.08 per M.



## DIANTHUS BARBATUS

Commonly referred to as Sweet William, these varieties are listed in the perennial section on **Page 97**.

## WINTER HARDY VARIETIES

Barbatus X Chinensis. A new type of hybrid dianthus which has been crossed with Sweet William to make plants more heat tolerant, more free flowering and enable plants to survive sub zero, winter temperatures.

## IDEAL SELECT

(8 in/20 cm) Contains the best colors from the original IDEAL series with improved habit and timing, exceptional winter hardiness and extra large early blooms. Very tolerant to heat. A true biennial and excellent companion to pansies. Zones 2-11. Crop time 9-12 weeks.

**881A Raspberry**

**881B Red**

**881C Rose**

**881D Salmon**

**881E Violet AAS Winner**

**881F White**

**881G White Fire**

**881M Mix**

Prices for Ideal Select colors & mix: Pkt. (30 seeds) \$3.40; 250 seeds \$11.05; 1,000 seeds & over \$29.45 per M.

## HARDY TALL DIANTHUS

## DYNASTY

(16-20 in/40-50 cm) F1 hybrid. Fully double blooms are lightly scented and look like miniature carnations. Well branched plants have very strong, upright stems. Self cleaning (no dead heading required). Excellent for massed beds or as a backyard cut flower. Heat tolerant and winter hardy as a perennial to zone 6 (-10°F/-23°C; Detroit, Michigan). Similar to Ideal series but blooms are fully double. Crop time: 12-13 weeks in late Spring/early Summer; 11-12 weeks for a late Summer/Autumn crop. Pelleted seed.

**P1818A Orchid**

**P1818B Pink Magic**

**P1818C Purple**

**P1818D Red**

**P1818E Rose Lace**

**P1818F White Blush**

**P1818 Dynasty Mix** Formula mix of above colors

Prices for Dynasty colors & mix: Pkt. (30 seeds) \$4.55; 250 seeds \$23.55; 1,000 seeds & over \$62.90 per M.

## AMAZON

(18-24 in/45-60 cm) Can be used as a bedding plant or cut flower. Dark, green leaves. Neon Duo - 50% cherry/50% purple; Neon Cherry; Neon Purple and Rose Magic - blooms age white/pink/deep rose. Blooms late spring/summer. Perennial - Zone 5. Pelleted seed.

**P885A Neon Cherry**

**P885B Neon Duo**

**P885C Neon Purple**

**P885D Rose Magic**

Prices for Amazon colors: Pkt. (30 seeds) \$4.55; 250 seeds \$23.55; 1,000 seeds & over \$62.90 per M.



## DUSTY MILLER

**CULTURE:** Sow both Silverdust and Cirrus in January for 4 in/10 cm pots or by Feb 1-15th for bedding plants. Allow 6-7 weeks crop time for 4 in/10 cm pots.

**P788 Silverdust** Cineraria (8 in/20 cm) Leaves are finely cut, silver gray - almost coral like in appearance. Pellets only. 1,000 pellets & over \$8.84 per M.

**788 Silverdust** Pkt. (150 seeds) \$1.90; 10,000 seeds & over \$.66 per M.

**P798 Cirrus** Cineraria (8 in/20 cm) Larger, wider, silver gray leaves - retains color longer than other strains. Very hardy. Best choice for solid gray borders. Pkt. (50 pellets) \$3.35; 250 pellets \$9.95; 500 pellets \$17.10; 1,000 pellets & over \$21.98 per M.



## ERYSIMUM



**CULTURE:** (8-12 in/20-30 cm) 14,250 seeds per oz/28 g. The bedding plant of the future! A sweet smelling, base branching companion for pansies. Croptime 11-12 weeks. Matures about one week later than most pansies from seed. Germinate at 72°F/22°C for 4 days. Cover seed lightly. Grow at 65°F/18°C. PVP.

**907A Citrona® Orange**

**907B Citrona® Yellow**

Prices for Citrona colors: Pkt. (20 seeds) \$2.75; 250 seeds \$20.35; 1,000 seeds & over \$62.46 per M.

## ESCHSCHOLZIA

**CULTURE:** 14,000 per oz/28 g. Sow where they are to bloom in early May - choose a nice sunny location. Germinate at 65-75°F/18-24°C soil temp. for 24 days. Considered a wild flower. California Poppy.

**901 Mission Bells** (12 in/30 cm) Semi double blooms in rose, gold, cherry, scarlet and pink. Pkt. (400 seeds) \$2.20; 1/4 oz. \$3.80; oz. \$12.60; 1/4 lb. \$36.05; 1/2 lb. \$72.10; lb. \$144.20.



## EUPHORBIA

**CULTURE:** 1,500 seeds per oz/28 g. Sow indoors Apr. 1st or outdoors May 20th for July or Aug. foliage. Germinate at 65-75°F/18-24°C soil temp. for 20 days. Used as tall foliage accents for formal gardens.

**909 Snow-on-the-Mountain** *Variegata marginata* (24 in/60 cm) Bicolor leaf, green center with white picotee edge (no flower). Plants will grow anywhere - even in the poorest soils. Tolerant to heat or drought. Leaves begin to show white/green bicolor during late August short days and cool nights. Pkt. (25 seeds) \$2.20; 1,000 seeds & over \$6.16 per M.



## GAILLARDIA



**CULTURE:** 15,000 per oz/28 g. Sow indoors March 1st at 80°F/27°C soil temp. or outdoors June 10th. Likes full sun. Rubbed seed.

**922E Sundance Bicolor** (10 in/25 cm) Double flowered type for mass plantings or borders. Large 2 in/5 cm, primarily double blooms on bushy dwarf plants that spread 16 in/40 cm and bloom all summer. Plants are drought tolerant. Crop time 12-13 weeks. AAS Winner. Pkt. (50 seeds) \$2.45; 1/8 oz. \$11.10; 1/4 oz. \$20.85; oz. \$62.05.



## U.S. Protected Variety

*Seed must not be reproduced for sale without permission of the originator.*



Gaillardia - Sundance Bicolor



Snow-on-the-Mountain





Gomphrena - Woodcreek Mix



Helenium - Dakota Gold



Godetia - Satin Mix



Gazania - Kiss Frosty Orange



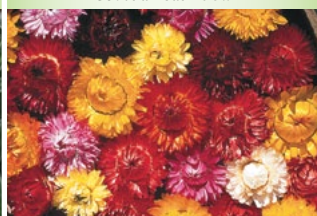
Gypsophila - Elegans



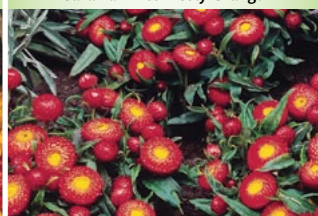
Gomphrena - Fireworks



Gazania - Big Kiss White Flame



Helichrysum - Finest Mix



Helichrysum - Chico Red



Gypsophila - Elegans



## GAZANIA



CULTURE: 16,000 seeds per oz/28 g and 550 seeds per 1/32 oz/g. Sow indoors Feb.15 to Mar.1 for July blooms. Germ. at 60°F/16°C soil temp. in total darkness for 7 days. Recommended for hot, dry areas. Do not overwater, it causes crown rot. Flowers close at night. Water once a week!

**943 Mini-Star™ Mix** (6 in/15 cm) Multiflora F1 for 3 in/8 cm pots and formal, full sun beds. Blend of orange, white, yellow, russet, pink in many bicolors. Pkt. (15 seeds) \$2.70; 250 seeds \$12.80; 1,000 seeds & over \$30.68 per M.

## NEW DAY SERIES

(8-10 in/15-25 cm) New Day series is more compact with larger flowers, shorter flower stems and easier to produce for commercial growers than most gazanias. Plants are drought tolerant, hold their appearance better in chain stores and garden centers, plus perform well in containers, baskets and outdoors as a bedding plant. Crop time 12-14 weeks from transplanting. Use 306 paks; 4 in/10 cm or 6 in/15 cm pots.



**942K Red Shades**  
**942Q Clear Orange**  
**942S White**

**942P Bronze**  
**942R Pink Shades**  
**942T Yellow**

**942M Mix 6 colors**

**942Z Bright Mix** Bronze, orange, yellow, pink

Prices for New Day colors & mix: Pkt (15 seeds) \$2.75; 250 seeds \$12.65; 1,000 seeds & over \$33.91 per M.

## KISS™ &amp; BIG KISS™

(8 in/20 cm) F1 hybrid. Similar to Daybreak in flower size and mounding plant habit. Frosty shades have silver leaves. All others have green leaves. Croptime 13-15 weeks. Use 4-6 in/10-15 cm pots. Do not use paks. M = 1,000 Seeds or Pellets.



**947N Frosty Orange**

**947B Bronze Star**

**947C Orange**

**947D Rose**

**947F Yellow**

**947G Yellow Flame**

**947J Orange Flame**

**947K Frosty White Flame**

**947L Frosty Red**

**947M Kiss Mix** Blend of Flames, orange, rose, yellow, gold, bronze, white, lemon, mahogany

**947Y Kiss Flame Mix** Orange and Yellow Flames

**947Z Kiss Frosty Mixture** Blend of silver leaf colors

Prices for Kiss colors & mixes above: Pkt (15 seeds) \$2.75; 250 seeds \$10.95; 1,000 seeds & over \$29.39 per M.

**1950A Big Kiss White Flame**

**1950B Big Kiss Yellow Flame**

Prices for Big Kiss colors: Pkt (15 seeds) \$3.35; 250 seeds \$30.55; 1,000 seeds & over \$81.80 per M.



## GYPSOPHILA



## Baby's Breath

CULTURE: 25,000 per oz/28 g. Sow indoors anytime from Dec.to April for greenhouse cut flowers. Plants flower about 3 months from seeding. Germinate at 70°F/21°C soil temp. for 10 days. Sow outdoors every two weeks from May 1st to July 15th. Gypsy Pink and Gypsy Deep Rose are AAS Winners. Multi-Pellets only.



**P959C Gypsy White** (20 in/50 cm) Double blooms.

**P959A Gypsy Pink** (20 in/50 cm) Double blooms.

**P959B Gypsy Deep Rose** (20 in/50 cm) Double blooms.

Prices for Gypsy pellets: 100 pellets \$15.35; 500 pellets \$70.30; 1,000 pellets & over \$123.65 per M.

**955 Elegans** (20 in/50 cm) Pure white Baby's Breath. Pkt. (300 seeds) \$2.20; 1/4 oz. \$2.95; oz. \$5.40; 1/4 lb. \$13.15.



## GOMPHRENA



CULTURE: Sow Mar. 15th in 80°F/27°C soil for 14 days in total darkness. Press fine seed into soil, cover seeds with ¼ in/6mm of soil. Reduce soil temp. to 70°F/21°C at night. Never overwater seedbeds or transplants. Germ. 40-50% at best.



## GNOME - DWARF TYPE

**941C Gnome Mix** (6 in/15 cm) Blend of pink, white, rose. Use for 4 in/10 cm pots or landscaping. Pkt (25 seeds) \$2.20; 250 seeds \$3.95; 1,000 seeds & over \$11.84 per M.



## LAS VEGAS



Best Gomphrenas for the garden.

(16-20 in/40-50 cm) Perfect for 4.5 in/11 cm pot production. Short 9-11 week croptime in paks. Heat tolerant.

**1931A Las Vegas Pink**

**1931B Las Vegas Purple**

**1931C Las Vegas White**

**1931 Las Vegas Mix**

Prices of above colors and mix: Pkt. (50 seeds) \$2.25; 250 seeds \$7.40; 1,000 seeds & over \$22.35 per M.



## WOODCREEK - TALL CUTTING

**940A Orange**

**940B Lilac**

**940C Red**

**940D White**

**940E Purple**

**940F Rose**

**940K Woodcreek Mix** (18 in/46 cm) A special formula of seven colors.

Prices for Woodcreek colors & mix: Pkt. (50 seeds) \$2.20; 250 seeds \$3.55; 1,000 seeds & over \$10.79 per M.

**941D Fireworks** (20 in/51 cm) Rose pink/yellow tips. 100 seeds \$31.30; 250 seeds \$57.45; 1,000 seeds & over \$173.93 per M.

**1932A Audray Bicolor Rose** (20 in/51 cm) Rose flowers with white centers. Pkt. (50 seeds) \$2.20; 250 seeds \$6.00; 1,000 seeds & over \$18.23 per M.



## GODETIA



CULTURE: 42,000 per oz/28 g. Sow direct outdoors May 1st, thin to 8 in/20 cm. They prefer a cool shady location and rather poor soil. Blooms 70 days from seed.

**957 Monarch Single** (12 in/30 cm) Dwarf plants for rock gardens, become smothered with quarter sized silky flowers in shades of pink, white and red. Pkt. (800 seeds) \$1.90; 1/16 oz. \$2.95; 1/4 oz. \$5.10; oz. \$14.60.

## SATIN - DWARF HYBRID

(8 in/20 cm) Best extra dwarf F1 hybrid for 4 in/10 cm pots. Base branching plant habit with VERY uniform flowering time between 8 different colors. Flowers heavily without pinching or use of growth regulators. Can be used outdoors in heavy shaded areas.

**957A Satin Mix** (8 in/20 cm) A blend of 8 colors and bicolors. Pkt. (25 seeds) \$4.30; 1,000 seeds & over \$54.41 per M.



## HELENIUM



CULTURE: Vigorous plants are tolerant to drought, high heat, plus wet, cool conditions! Crop time 8-12 weeks. Sow indoors in a sunny area Feb.15th. Germinates in 3-5 days at 65-75°F/18-22°C. Cover multi-pellet lightly with vermiculite. Grow plants at 75°F/22°C days; 64°F/18°C nights. Plants flower in 8-12 weeks and spread to 24 in/60 cm. Multi-pellet. PVP.

**P1725 Dakota Gold** (8 in/20 cm) Golden yellow daisy-like flower. Pkt (10 pellets) \$4.85; 250 pellets \$56.55; 1,000 pellets & over \$154.89 per M.



## HELICHRYSUM



## STRAWFLOWER - TALL CUTTING TYPES

CULTURE: 45,000 seeds per oz/28 g. Sow indoors March 15th for florist cut flower material. Germinate at 75°F/24°C soil temp. Press seed into soil surface - do not cover (needs light to germinate). Transplant in mid June. Sow outside June 1st in rows 16 in/40 cm apart, thin to 8 in/20 cm apart. Harvest in September - hang upside down to dry for winter bouquets. For bedding plants, allow 7-8 weeks from seed to sale in paks. High soil temperature will limit germination.

**975B Golden Yellow**

**975F Pink**

**975 Finest Mix** (3 ft/90 cm) Superior Swiss selection, extra large flowers for Eastern growers. Stiff stems, unusual colors. For commercial cut or dried flowers.

Prices for Tall Strawflower colors & mix: Pkt. (250 seeds) \$2.45; 1/4 oz. \$4.45; oz. \$14.40.

## DWARF HELICHRYSUM



**976B Chico Red** (12 in/30 cm) First color of a new award winning large flowered extra dwarf series for 4 in/10 cm pots, patio containers or hanging baskets. Plants flower during sunny longer 14 hour days. Avoid ammonium fertilizers to keep mounded plants short. Unique red double blooms with yellow centers cover plants and close at night. Plants dry out easily in hot weather. Makes a great dried flower bouquet. Pkt. (25 seeds) \$3.35; 250 seeds \$17.05; 1,000 seeds & over \$39.74 per M.



## HELICHRYSUM



## FOLIAGE TYPE (Petiolare Minus)

**P973A Silver Mist** (8 in/20 cm) Round/oval silver leaf .25 in/.6 cm in size on silver stems 18 in/45 cm long. Plants branch and spread well without pinching (unlike vegetative species). Silver foliage appears greenish under short spring and late fall daylight. Silver color intensifies with longer daylight. Use for hanging baskets or containers. Prefers full sun. Germinate at 76°F/24°C for 7 days. 12-14 week crop. Multi-pellet. 25 pellets \$6.95; 100 pellets \$22.50; 1,000 pellets & over \$160.60 per M.



## HELIOTROPE



CULTURE: 50,000 per oz/28 g. Sow indoors Mar. 1st at 70-80°F/21-27°C alternate night soil temperatures to 60°F/16°C for 15-20 days. Transplant outside after June 10th, space 12 in/30 cm, blooms in July. Attracts bees, vanilla scent.

**985 Marine Lemoine Strain** (24 in/60 cm) Deep purple broccoli shaped, fragrant blooms. Use for semi dwarf backgrounds or cut flowers. Pkt. (100 seeds) \$2.45; 1/128 oz. \$6.50; 1/32 oz. \$8.40; 1/8 oz. \$29.65; 1/2 oz. \$103.05.



Helichrysum - Silver Mist

Gypsophila - Gypsy Deep Rose  
Stokes Seeds Inc.



BullsEye Salmon



Divas Raspberry Ripple



Maverick Quicksilver



Pinto Premium Violet



Pinto Premium Orange Bicolor



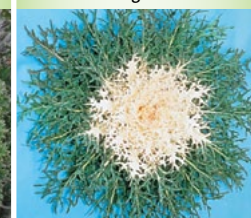
Kale - Nagoya White



Kale - Glamour Red



Kale - Songbird Series



Kale - White Peacock



Hollyhock - Summer Carnival



## HYBRID GERANIUMS



CULTURE: For May 10th blooms in 4 in/10 cm pots, seed by Dec. 20th. Use sterilized soil or a commercial mix (Pro Mix B or Jiffy Mix). For more detailed geranium culture, please see our website; [www.StokeSeeds.com](http://www.StokeSeeds.com). **M = 1,000 seeds or pellets.**

### MULTIBLOOM™

Produces an ideal 4 in/10 cm pot plant in about 80 days from seed. This species is a true multiflora type, averaging 15 flower heads per plant at maturity. The Multiblooms grow much faster than the Orbits or Elites - and it is very important NOT to check the growth of the plug, seedling or plant. Filmcoated seed.

**925A Red**      **925B Scarlet**      **925C Lavender**  
**925D Scarlet Eye** **925F Capri Coral** **925G White**  
**925H Pink**      **925I Salmon**      **925K Violet**  
**925 Multibloom Mix** 9 colors

Prices for Multibloom: 20 seeds \$4.75; 100 seeds \$16.60; 500 seeds \$64.90; 1,000 seeds & over \$109.53 per M.



### PINTO™ PREMIUM

One of the best seed geraniums on the market. Plants are very uniform - flower stems are very short and well branched, free flowering with large round flowers. Uniform flowering colors are easy to schedule, short flower stems make plants easy to ship. Use for Jumbo Paks or 4 in/10 cm pots. Plants require flower growth regulators. Crop time for 4 in/10 cm pots 12-14 weeks. **White to Rose** is a 2014 AAS Winner.

**1914D Lavender** **1914A Coral** **1914F Salmon Splash**  
**1914B Deep Red** **1914E Salmon** **1914J Orange Bicolor**  
**1914C Deep Rose** **1914G Scarlet** **1914K Rose Bicolor**  
**1914L White**      **1914H Violet**

Prices for Pinto Premium: 20 seeds \$4.85; 250 seeds \$35.80; 1,000 seeds & over \$111.88 per M.

**1914Z White to Rose** (20 seeds) \$5.30; 250 seeds \$39.05; 1,000 seeds & over \$122.05 per M.

### ORBIT SYNCHRO™

Five of the best Orbit colors for growers looking to do bench runs. These are the most well matched for habit, timing and flowering. Filmcoated seed. Prices below.

**1916B Hot Pink**      **1916E White**      **1916D Scarlet**  
**1916A Appleblossom** **1916C Salmon**

Prices for Orbit Synchro: 20 seeds \$4.60; 100 seeds \$16.15; 500 seeds \$63.05; 1,000 seeds & over \$106.41 per M.

### BLACK VELVET™

Distinct bicolor leaves have chocolate centers with a green edge. The dark foliage contrasts well with the bright blooms.

**949R Rose** AAS Winner      **949M Formula Mix** 6 colors  
 Prices for Black Velvet Rose & Mix: 20 seeds \$7.30; 100 seeds \$25.45; 500 seeds \$99.40; 1,000 seeds & over \$167.78 per M.

**949C Moulin Rouge Scarlet** Bright scarlet/white eye, large bloom, well zoned, vigorous branching plant. 20 seeds \$5.45; 100 seeds \$19.10; 500 seeds \$74.55; 1,000 seeds & over \$125.83 per M.

### BULLSEYE™

(13-15 in/32-37 cm) Unique chocolate on green foliage. Fewer PGRs needed, make "bench run shipping" uniform. Higher percent of transplantable seedlings. Crop time 13-15 weeks. Filmcoated seed.

**1915A Cherry**      **1915B Light Pink**      **1915C Salmon**  
**1915D Scarlet**      **1915E Red**

Prices for Bullseye color: 20 seeds \$5.15; 100 seeds \$19.20; 500 seeds \$84.00; 1,000 seeds & over \$118.92 per M.

### MAVERICK™

Similar to the Pintos in plant habit and flower shape. Responsive to Cycocel. Zoned foliage. For pots or bedding plants. Filmcoated seed.

**932A Red**      **932B Pink**      **932C Salmon**  
**932D Scarlet**      **932E White**      **932F Coral**  
**932H Violet**      **932J Lavender**      **932M Orange**  
**932K Quicksilver**      **932Q Rose**      **932 Star**  
**932Z Mix**      **932L Appleblossom**  
**932N Scarlet Picotee**  
**932P Salmon Confetti** Salmon/salmon flecks

Prices for Maverick colors & mix: 20 seeds \$4.85; 100 seeds \$16.95; 500 seeds \$66.30; 1,000 seeds & over \$111.88 per M.

### DIVAS

Unique speckled tricolor and bicolor florets are shaded with cream and flecked with the primary color (ie) Raspberry - salmon/cream/ red flecks; Strawberry - creamy pink/rose flecks; Blueberry - pale wine on creamy blush background.

**929E Blueberry Ripple**      **929C Raspberry Ripple**  
**929D Strawberry Ripple**  
**937K Divas/Horizon Orange Ice** A beautiful pastel orange background flecked with scarlet.

Prices for Divas colors: 20 seeds \$5.45; 100 seeds \$19.10; 500 seeds \$74.55; 1,000 seeds & over \$125.83 per M.



## TRAILING IVY GERANIUMS

### SUMMER SHOWERS

True cascading, base branching ivy leaf geraniums from seed. Large open 4 in/10 cm single blooms, dark green, plain leaves. For window boxes and hanging baskets. Prices below.

**948Q Burgundy**      **948T White Blush**  
**948U Fuschia**  
**948G Summer Showers Mix** Formula blend of red, pink, lavender, white and wine.

### TORNADO™

An economical alternative for ivy geranium production. Trailing 10x 12 in/25x30 cm foliage needs no growth retardants. Naturally trailing and free-flowering with excellent lateral branching. Great for hanging baskets. Filmcoated seed.

**1917 Tornado Mix** Blend of 6 colors

Prices for Summer Showers & Tornado colors & mixes: 20 seeds \$14.15; 100 seeds \$49.50; 500 seeds \$193.30; 1,000 seeds & over \$326.32 per M.



## HOLLYHOCK (ANNUAL)

CULTURE: Seed size varies 1,900-3,800 seeds per oz/28 g. Sow indoors Apr.1st; outdoors May 1st at 60°F/16°C soil temp. for 10 days, for Aug. blooms. Space 12 in/30 cm apart in full sun. NOT a perennial but a hardy annual which reseeds. Perennial hollyhocks, see page 95.

**988A Summer Carnival Mix** (4.5 ft/137 cm) Large, fully double 4.5 in/11 cm blooms. 5 colors. Pkt. (40 seeds) \$1.90; 1/8 oz. \$2.90; 1/2 oz. \$6.45; oz. \$10.95.

**988C Zebrina** (2.5 ft/77 cm) 3 in/8 cm single white blooms with purple stripes. Pkt. (40 seeds) \$2.20; 1/8 oz. \$7.75; 1/2 oz. \$14.85; oz. \$29.70.

**988D Spring Celebrities Formula Mix** (30 in/75 cm) Semi dwarf, semi double bloom 14-16 weeks from sowing. Rose, lemon, purple, white, crimson, lilac, and pink. Hardy annual to zone 5. Pkt. (15 seeds) \$5.50; 250 seeds \$64.55; 1,000 seeds & over \$163.36 per M.



## HYBRID KALE & CABBAGE

CULTURE: Seed size varies 7,000-14,500 seeds per oz/28 g. Sow indoors Mar. 20th. Germinate at 70°F/21°C for 10 days, transplant into 6 in/15 cm pots. Allow 5-7 weeks from seed to sale. Cut flower type kales have 24 in/60 cm tall stems with small round leaf cabbage heads.

### FLOWERING CABBAGE

**1011C Osaka Pink** Rose-pink center rosette/green veins  
**1011B Osaka Red** Deep rosy-red center rosette/ greenish-purple veined leaves

**1011A Osaka White** Creamy white interior rosette/ green veined leaves

**1011 Osaka Mix** Blend of red, pink, white cabbages  
 Prices for Cabbage: Pkt. (35 seeds) \$2.20; 250 seeds \$5.95; 1,000 seeds & over \$15.15 per M.

### FLOWERING KALE

**1012B Nagoya Red** Rosy-red savoyed center/ greenish purple outer leaves

**1012C Nagoya Rose** Rose-pink savoyed center/ greenish purple outer leaves

**1012A Nagoya White** White savoyed center/ greenish purple outer leaves

**1012 Nagoya Mix** Blend of red, white and rose centered kales with greenish purple outer leaves

**1012G Red Peacock** Rose-pink center/dark crimson outer leaves, which are long, serrated

**1012D White Peacock** Creamy white center/bright green outer leaves which are long, serrated

**1012J Chidora Red** Deep rose-red double savoyed center/savoyed magenta-rose outer leaves

**1013J Pink Kamome** Fringed pink/green leaves  
 Prices for Kale colors: Pkt. (40 seeds) \$2.20; 250 seeds \$5.95; 1,000 seeds & over \$16.89 per M.

### SONGBIRD™

Round leaf, more upright plant habit than Pigeon series, which allows better rain drainage. Needs cooler night temperatures and lower fertilizer rates to color properly - Use B-Nine/ Cycocel to control height in heat.

**1009B Songbird Pink**      **1009C Songbird Red**  
**1009D Songbird White**

Prices for Songbird colors: Pkt. (40 seeds) \$2.45; 250 seeds \$7.55; 1,000 seeds & over \$22.27 per M.

**1010B Glamour Red** Unique shiny leaves have waxless quality and are medium green fringed with vivid red contrasting centers. Heads average 10 in/25 cm. AAS Winner. Pkt. (20 seeds) \$5.75; 250 seeds \$34.45; 1,000 seeds & over \$101.91 per M.



### TALL FLOWERING KALE

(24 in/60 cm) Small teacup size heads on tall stems for cut flower sales.

**1012Q Crane Bicolor** Rose & white/green leaf

**1012N Red Crane** Red/wine leaves

**1012P Rose Crane** Rose purple/grey green leaf

**1012M White Crane** Cream rose/ green leaf

Prices for Crane colors: Pkt. (40 seeds) \$2.45; 250 seeds \$6.90; 1,000 seeds & over \$20.43 per M.

**1012R Lucir Rose** Rose/green leaf

**1012S Lucir White** White rose center/green leaf

Prices for Lucir White & Rose: Pkt. (40 seeds) \$3.50; 250 seeds \$23.80; 1,000 seeds & over \$70.31 per M.





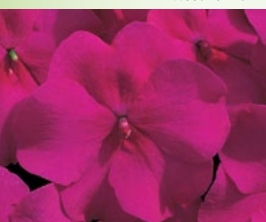
Accent Premium Pastel Mix



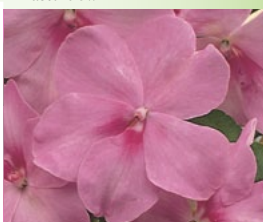
Accent Premium Mystic Mix



Accent Star Mix



Accent Burgundy



Accent Lavender Blue



Accent Orange



Accent Salmon Picotee



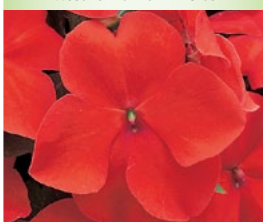
Accent Coral



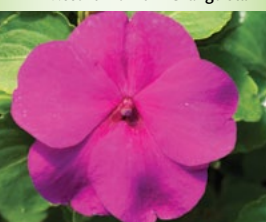
Accent Premium Violet



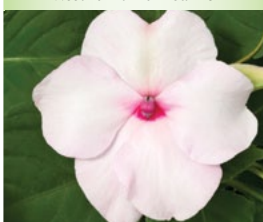
Accent Premium Orange Star



Accent Premium Salmon



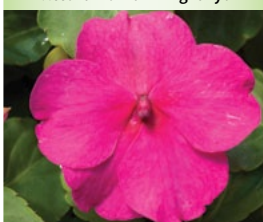
Accent Premium Lilac



Accent Premium Bright Eye



Accent Premium Red



Accent Premium Rose



## HYBRID IMPATIENS



**CULTURE:** Seed size varies drastically by color from 35,000 to 90,000 seeds per oz/28 g; 1/8 oz/3.5 g contains about 4,200 seeds, of most popular colors. For pak sales sow Feb.15th-Mar.10th. Allow 9-12 weeks for paks or 10-14 weeks from seed to sale for pots, containers or hanging baskets. **GERMINATION:** Research data proves that excessively high soil temperatures will prevent germination (over 86°F/29°C). Impatiens like a maximum soil temp. of 70°F/21°C to germinate. Use a sterile medium like Jiffy Mix, press seed into surface without covering it. Provide a uniform moisture level, do not let seeds dry out or it will limit proper germination. Most cultivars require light to begin germination - Accents prefer 2 days without light. If you cover seed flats with plastic sheets to retain moisture make sure you keep them semi shaded and out of the direct rays of the sun. Remove plastic a few hours during sunny days to provide proper ventilation so that you don't kill the seed. Grow plants cool at 60°F/16°C, keep them on the dry side and do not fertilize. Surplus seed MUST be stored at 60°F/16°C or less, higher temperatures over long time periods will reduce germination severely. **DISEASE:** Regular (wallieriana) impatiens varieties are very susceptible to "Impatiens Downy Mildew" which is an air and soil borne, destructive disease that spreads quickly under moist conditions and cool nights throughout variable northeastern USA and Canada (locations as far north as zone 4a). **M = 1,000 Seeds or Pellets.**

### ACCENT™

#### Wide Color Choice.

Syngenta Flowers has installed a fabulous computerized screening system to ensure each seed lot achieves 95% germination and a minimum CASA uniformity rating of 9.65. Listed below are **Regular Accent** colors and several mixes that are still being updated by the breeder - to eventually join the new improved **Accent Premium** colors and mixes also listed below.

**1014C Orange** **1024D Rose Star**  
**1014I Salmon Picotee** **1014J Coral**  
**1014P Red Star** **1014S Lavender Blue**  
**1014U Burgundy**

Prices for Accent colors: 250 seeds \$7.20; 500 seeds \$12.50; 1,000 seeds & over \$18.02 per M.

**1014V Accent Star Mix**  
**1014Z Accent Sunrise Mix** A peach, coral, salmon, apricot, orange designer blend highlighted w/ white.

Prices for Accent mixes: 50 seeds \$3.80; 250 seeds \$7.20; 500 seeds \$12.50; 1,000 seeds & over \$18.02 per M.

### ACCENT PREMIUM™

Large, high quality blooms and strong weather tolerant garden vigor, plus more uniform flowering between colors and a better base branching plant. Ideally suited for 4 in/10 cm pots, large paks or baskets. Crop time 10-11 weeks.

**1852A Bright Eye** **1852B Deep Orange**  
**1852C Lilac** **1852D Orange Star**  
**1852E Pink** **1852F Red**  
**1852G Rose** **1852H Salmon**  
**1852J Violet** **1852K Violet Star**  
**1852L White**

**1852M Accent Premium Pastel Mix** A special blend of designer colors plus rose, pink, white highlighted by a Bright Eye.

**1852N Accent Premium Mystic Mix** A designer blend of lavender, lilac, and violet highlighted by a Bright Eye.

**1852 Accent Premium Mix** Formula blend of the above Premium colors.

Prices for Accent Premium colors and mixes: 50 seeds \$3.80; 250 seeds \$7.20; 1,000 seeds & over \$18.02 per M.

**Impatiens Downy Mildew** - This disease has suddenly become more common in Eastern North America and Canada - especially during hot humid summers. Although regular impatiens are very susceptible to this disease, both series of New Guinea (sun and shade varieties) listed on page 69 are highly tolerant to Downy Mildew.

### IMPREZA

#### Longest shelf life of any impatiens.

Top selling choice of colors and unique patterns - 5-7 day flowering window, less upward stretch and lodging. Holds well in paks.

**1848A Blue Pearl** **1848C Pink**  
**1848E Red** **1848F Rose**  
**1848G Salmon** **1848H Violet**  
**1848J White** **1848K Punch**  
**1848Z Wedgewood Mix** Blue Pearl, violet, white  
**1848 Impreza Mix** Blend of above colors  
**1848Y Intense Mix** Red, violet, punch

Prices for Impreza colors & mixes: 50 seeds \$3.95; 250 seeds \$7.70; 1,000 seeds & over \$19.27 per M.

**1848B Cherry Splash** 250 seeds \$7.70; 1,000 seeds & over \$19.27 per M.



Impreza - Blue Pearl



Impreza - White



Impreza Series





Impreza - Wedgewood Mix



Xtreme - Bright Eye



Tumbler - Violet Star



## HYBRID IMPATIENS



### TUMBLER™



#### Trailing - Mounded Type

Unique, well-branched trailing or mounded habit. **Plant stems trail or spread twice the length of regular impatiens.** Provides reliable color in hanging baskets and mixed containers on shady porches, patios, balconies and landscape sites where other impatiens varieties may struggle - due to insufficient light. Excellent garden performance in semi-dense shade. Finished plants rival the quality of those propagated from cuttings.

- |                        |                          |
|------------------------|--------------------------|
| <b>1854A Pink</b>      | <b>1854B Rose</b>        |
| <b>1854C Rose Star</b> | <b>1854D Salmon</b>      |
| <b>1854E Scarlet</b>   | <b>1854F Violet</b>      |
| <b>1854H White</b>     | <b>1854G Violet Star</b> |

Prices for Tumbler colors: 50 seeds \$6.75; 250 seeds \$22.55; 1,000 seeds & over \$66.78 per M.



### SEMI DOUBLE

**995K Victorian Rose** (10-12 in/30 cm) Provides almost 100% semi-double blooms. AAS Winner. 50 seeds \$8.20; 250 seeds \$26.35; 1,000 seeds & over \$78.05 per M.

### SUPER ELFIN®

#### Best color range

Uniformity, performance and blooming windows have been drastically improved. Uniform, dwarf, free flowering 6 in/15 cm plants. All are green leaf types. All XP colors have been updated and improved for earliness and flower size.

- |  |                               |
|--|-------------------------------|
| <b>1015A Pink XP</b>                           | <b>1015B Violet XP</b>        |
| <b>1015C Rose XP</b>                           | <b>1015D White XP</b>         |
| <b>1015E Bright Orange</b>                     | <b>1015F Blue Pearl XP</b>    |
| <b>1015G Scarlet XP</b>                        | <b>1015L Lipstick</b>         |
| <b>1015M Red XP</b>                            | <b>1015P Apricot</b>          |
| <b>1015Q Coral XP</b>                          | <b>1015Y Salmon XP</b>        |
| <b>1016C Melon XP</b>                          | <b>1016G Ruby</b>             |
| <b>1016J Punch XP</b>                          | <b>1016K Clear Mix XP</b>     |
| <b>1016L Cherry Splash XP</b>                  | <b>1016M Red Starburst XP</b> |
| <b>1016Z Starburst Mix XP</b>                  |                               |
| <b>1016H Seaside Mix</b> White, lavender, blue |                               |
| <b>1015 Mix XP</b> Formula blend of above      |                               |

Prices for Super Elfin colors & mixes: 50 seeds \$4.05; 250 seeds \$7.70; 1,000 seeds & over \$19.27 per M.

**1016N Salmon Splash XP** 250 seeds \$7.70; 1,000 seeds & over \$19.27 per M.

### XTREME™

#### Best for Plugs

An ultra Super Elfin type bred to produce high quality plugs faster than other types. Colors are limited to best performers and highest germinators.

- |  |                          |
|--|--------------------------|
| <b>1032N Bright Eye</b>                                  | <b>1032Q Bright Rose</b> |
| <b>1032R Punch</b>                                       | <b>1032A Lavender</b>    |
| <b>1032B Pink</b>  | <b>1032C Red</b>         |
| <b>1032D Rose</b>  | <b>1032E Salmon</b>      |
| <b>1032F Scarlet</b>                                     | <b>1032G Violet</b>      |
| <b>1032H White</b>                                       | <b>1032J Deep Salmon</b> |
| <b>1032K Lilac</b>                                       | <b>1032L Orange</b>      |
| <b>1032M Xtreme Mix</b> Formula blend of 10 colors       |                          |
| <b>1032X Utopia Mix</b> Lavender, rose, salmon, violet   |                          |
| <b>1032Y Hot Mix</b> Deep salmon, scarlet, white, salmon |                          |
| <b>1032Z Sapphire Mix</b> Pink, lavender, violet         |                          |

Prices for Xtreme colors & mixes: 50 seeds \$4.05; 250 seeds \$7.70; 1,000 seeds & over \$19.29 per M.

## NEW GUINEA IMPATIENS



### DIVINE SERIES

F1 hybrid. The best professional quality seed propagated New Guinea impatiens on the market without germination or recent disease issues. **The Divines are highly tolerant to Downy Mildew** and work well with mechanical sowing and transplanting operations. Plants average 10-14 in/25-35 cm and spread 12-14 in/30-35 cm. **CULTURE:** For plugs use 128 to 288 cells. Cover seed lightly with coarse vermiculite to maintain high moisture. Germinate in 6-8 days @ 72°F/22°C and maintain these temps. until seedlings are ready to transplant. Keep area well lit and plugs at 50% moisture content. After transplanting into 306 premium paks, 4 in/10 cm pots or hanging baskets - reduce moisture slightly. Avoid wilting transplants. As plants flower, lower growing temps to 65°F/18°C to increase flower size.



**1855Y Divine Hot Mix** Blend of scarlet red, cherry red, orange with bronze leaf.



**1855Z Divine Mystic Mix** Blend of lavender, white, violet.

**1855M Divine Mix** Formula blend of orange, pink pearl, cherry red, lavender, scarlet, violet and white with contrasting leaf colors.

Prices of above Divine Mixes: 100 seeds \$17.30; 1,000 seeds & over \$85.66 per M.



### FLORIFIC™ SERIES

F1 hybrid. The perfect semi-shade or shade loving alternative, with the **same strong tolerance to Downy Mildew**. Slightly better branching and more compact than previous New Guinea types. Plants are more tolerant to lower greenhouse temperatures than traditional types. Crop time is about 12.5-15 weeks from seeding to bloom. Minimum seed germ 90%. Similar culture as Divines. No pinching needed. Slightly larger flowers than the Divines. Blooms lay flat on top of foliage. Use for premium jumbo packs and 4 in/10 cm pots.

- |                       |                    |
|-----------------------|--------------------|
| <b>1856A Lavender</b> | <b>1856B Red</b>   |
| <b>1856C Violet</b>   | <b>1856D White</b> |

Prices for Florific colors: 50 seeds \$10.10; 250 seeds \$32.60; 1,000 seeds & over \$102.34 per M.

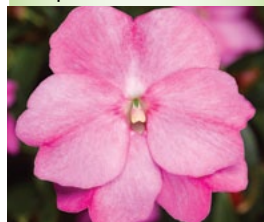
**Downy Mildew** - This is not a seed borne disease. If your plants become infected, destroy them immediately (do not put in compost) - because the disease will winter over in the soil for at least two years. Regular Impatiens should be grown in clean large containers using a soil-less potting mix to avoid infection. If outdoor areas were infected from the previous summer - use alternative replacement crops next summer like fibrous and tuberous begonias, coleus or the above New Guinea impatiens varieties. All of these have strong tolerance to this Downy Mildew.



Xtreme - Salmon



Xtreme - Pink



Florific - Lavender



Florific - Red



Divine - Mystic Mix





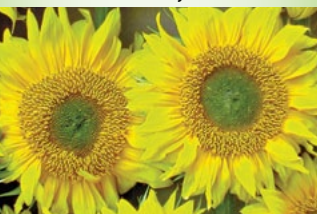
Tiffany

Peach Passion

Moonshadow

Starburst Aura

Jade



ProCut - Yellow Lite



ProCut - Bicolor



Sun - Sunbright Supreme



Sunrich - Orange Mahogany Bicolor



Sunrich - Lemon Summer



## HELIANTHUS (Sunflower)

### TALL HELIANTHUS - Blooms with Seeds

**CULTURE:** Seed size varies. 250-700 seeds per oz/28 g. Sow outdoors after frost danger, thin to 12 in/30 cm apart. May also be started indoors in peat pots April 1st. Hollow and solid stems.

**1973A Kong** (12 ft/3.6 m) F1 hybrid. Sturdy, 2.5 in/6 cm thick stems and a massive root system provide excellent wind tolerance for the huge 6 in/15 cm. Gold blooms with seeds. Pkt. (20 seeds) \$2.45; 100 seeds \$4.35; 500 seeds \$15.65; 1,000 seeds & over \$25.44 per M.

**979 Color Fashion Mix** (6 ft/2 m) A beautiful blend of yellow, bronze, and red single flowered sunflowers. Provides excellent cutting material and a tall border. Medium sized 4 in/10 cm single blooms. Pkt. (30 seeds) \$3.35; 1/2 oz. \$11.00; oz. 18.15; 1/4 lb. \$46.55; lb. & over \$186.20 per lb.

**980 Mammoth Russian** (6 ft/2 m) Huge single yellow blooms 10 in/25 cm in diameter are produced on heavy 6 ft/2 m stalks. Stake tall plants. Pkt. (40 seeds) \$2.20; 1/2 oz. \$3.50; oz. \$4.40; 1/4 lb. \$11.25; lb. & over \$45.00 per lb.

**981E Soraya** (72 in/1.8 m) Extra large 4-6 in/10-15 cm tangerine blooms with dark centers and very thick stems. Yields 20 stems per plant - 20 in/50 cm long. 1700 seeds per oz/28 g. AAS Winner. Pkt. (25 seeds) \$2.45; 250 seeds \$10.25; 1,000 seeds & over \$20.14 per M.

**981H Cutting Gold** (5 ft/1.5 m) Sold as an immature medium size yellow with small black disc and large petals or mature large center disc and small petals like Tiffany. Pkt. (25 seeds) \$2.20; 250 seeds \$4.70; 1,000 seeds & over \$9.18 per M.

**981F Ring of Fire** (4 ft/1.2 m) Large 6 in/15 cm tricolor bloom, dark red base, golden tips, dark center. Branching habit, long side stems. AAS Winner. Pkt. (20 seeds) \$2.95; 250 seeds \$15.55; 1,000 seeds & over \$30.45 per M.

### DWARF HELIANTHUS - Blooms with Seeds

**CULTURE:** Mature 45-55 days from seed. Use 5-6 in/13-15 cm pots.

**981B Sunspot** (16 in/40 cm) Golden, single 6 in/15 cm blooms with golden brown centers. Pkt. (30 seeds) \$2.90; 100 seeds \$4.35; 500 seeds \$13.10; 1,000 seeds & over \$21.29 per M.

**981Z Pacino Mix™** (16 in/40 cm) Formula blend of 3 colors - lemon yellow/green center, gold, golden yellow/dark center. Single 5 in/13 cm blooms. Great for containers or pot sales. Pkt. (30 seeds) \$2.90; 100 seeds \$4.75; 500 seeds \$16.40; 1,000 seeds & over \$26.62 per M.

**986 Teddy Bear** (16 in/40 cm) Huge 5 in/13 cm double yellow blooms on sturdy dwarf plants. Best double flowered chrysanthemum type. Great bedding plant. Pkt. (25 seeds) \$2.60; 250 seeds \$3.95; 1,000 seeds & over \$6.32 per M.



Sunspot



Ruby Eclipse



Color Fashion Mix



Sunrich - Prado Red Shades



Solita



Choco Sun



## HYBRID HELIANTHUS Pollen Free, Sterile, Seedless Sunflowers

The following hybrids are pollen free, seedless types which do not attract birds, have lighter flower heads (no seeds) and thicker stems - making them trouble free and better for cut flowers with longer shelf life than regular sunflowers. **M = 1,000 Seeds or Pellets.**

### SUNRICH

(36 in/90 cm) Male sterile. Medium large 6 in/15 cm blooms on sturdy wind tolerant plants. Sunrich colors mature 60 days from seeding with contrasting centers. Orange and Lemon Summer matures 10 days earlier. Daylength neutral.

**981U Lemon Summer/black** **981Q Gold/green**

**981V Orange Summer/black** **981R Lemon/black**

**981S Orange/black**

Prices for Sunrich colors: Pkt. (20 seeds) \$2.70; 100 seeds \$6.35; 500 seeds \$22.90; 1,000 seeds & over \$37.22 per M.

**981G Prado Red Shades** (4.25 ft/1.3 m) Pollen free medium size multiflora red with a yellow and brown center. Pkt. (20 seeds) \$3.95; 100 seeds \$10.75; 500 seeds \$29.45; 1,000 seeds & over \$47.83 per M.

**978C Moulin Rouge** (6 ft/1.82 m) F1 hybrid. Red/dark disc. Large pollen free 4 in/10 cm bloom. Pkt. (20 seeds) \$2.20; 100 seeds \$4.75; 500 seeds \$15.65; 1,000 seeds & over \$25.44 per M.

**982B Orange Mahogany Bicolor** (5.75 ft/1.75 M) Large pollen free 4 in/10 cm bloom. Striking bicolor single flower with dark mahogany central disc. Pkt. (25 seeds) \$2.90; 250 seeds \$19.65; 1,000 seeds & over \$38.49 per M.

### NOVELTY COLORS & BICOLORS

The following colors are F1 hybrid pollen free types and mature in about 55 days. Branching plant habits with 3-5 in/9-13 cm blooms.



**982C Jade** (4 ft/1.2 m) White/lime/green disc Pkt. (20 seeds) \$2.50; 100 seeds \$6.20; 500 seeds \$22.25; 1,000 seeds & over \$36.15 per M.



**982D Ruby Eclipse** (6 ft/1.8 m) Ruby/Lemon/Pink/dark disc. Pkt. (20 seeds) \$2.45; 100 seeds \$4.35; 500 seeds \$15.65; 1,000 seeds & over \$25.44 per M.

**978D Moonshadow** (4 ft/1.2 m) White/dark disc

**978E Peach Passion** (4 ft/1.2 m) Peach/brown disc

**978A Starburst Aura** (4 ft/1.2 m) Gold/green disc

**981W Tiffany** (5 ft/1.6 m) Orange/dark disc

The above four: Pkt. (20 seeds) \$2.70; 100 seeds \$8.75; 500 seeds \$30.25; 1,000 seeds & over \$49.14 per M.

### DOUBLE FLOWERED STERILE

**1971A Double Quick** (5 ft/1.5 m) Matures extra large 4-5 in/12-15 cm shaggy double seedless blooms with green centres in 65 days. Pkt. (20 seeds) \$2.70; 100 seeds \$6.20; 500 seeds \$22.25; 1,000 seeds & over \$36.15 per M.

### PRO CUT

The Pro Cut Series are all F1 hybrid, daylength neutral, single stem types with large 4 in/10 cm pollen free blooms. They mature in 50 days, all have dark discs and have excellent sturdy single stems for commercial cut flower use. Height 5 ft/1.5 m.

**979C Bicolor Yellow/mahogany** **979B Orange**

**979A Lemon** (can also be dyed with red/blue tips)

**979D Yellow Lite** Bright yellow with green disc - suitable for dying

Each of the above: Pkt.(20 seeds) \$2.70; 250 seeds \$10.65; 1,000 seeds & over \$32.14 per M.

### SUN

(7 ft/2.1 m) Pollen free and day neutral. Grow in the greenhouse or outdoors under longer day length in 65 days. Approx. 700 seeds per oz/28 g. 4-6 in/10-15 cm blooms.

**981N Sunbright** Golden yellow/brown center

**981P Sunbright Supreme** Earlier version of original with stronger stems and necks.

Prices for Sun colors: Pkt. (20 seeds) \$2.70; 100 seeds \$5.50; 500 seeds \$17.95; 1,000 seeds & over \$29.14 per M.

### DWARF SINGLE FLOWERED STERILE TYPES

Sow dwarf seedless types about Mar. 1 or 10 weeks before flowering for spring pot plant sales. Germinate seed at 65-75°F/18-24°C for 5-10 days in well-lit area of greenhouse. To keep seedlings short or from stretching, reduce temps to 62°F/17°C. Transplant at 2 leaf stage into 6 in/15 cm pots. Use B-nine or Bonzi 3 weeks after sowing, to control plant height and branching. Fertilize plants weekly at 200-250 ppm nitrogen. Choco Sun - PVP.



**981K Choco Sun** (10-12 in/25-30 cm) Lemon yellow flowers with dark chocolate brown centres over dark green leaves. Very compact, ideal for containers, window boxes and gardens. Pkt. (25 seeds) \$3.75; 100 seeds \$12.00; 1,000 seeds & over \$70.11 per M. Filmcoated Seed.

**978S Solita** (16 in/40 cm) Excellent bicolor, single. 6 in/15 cm golden yellow Pacino type bloom with pollen free green disc. Plants develop nice lateral branches. Long shelf life. Pkt. (20 seeds) \$2.45; 100 seeds \$9.40; 500 seeds \$33.75; 1,000 seeds & over \$54.84 per M.

**1974A Junior** (24 in/60 cm) Knee high, bushy plants have 4 in/12 cm bright yellow single blooms with dark brown discs at maturity (55 days from seeding). Use for pots or flowerbeds. Pkt. (20 seeds) \$2.45; 100 seeds \$6.20; 500 seeds \$22.25; 1,000 seeds & over \$36.15 per M.





Larkspur - Cannes Rose Stripe



Larkspur - King Size Mix



Lavatera - Silver Cup



Mesembryanthemum - Livingstone Mix



Lobelia - Compliment Mix



Lisianthus - Mermaid Pink



## LOBELIA



For neat borders in semi-shady areas the dark blue Crystal Palace, White Lady and Mrs. Clibran, are ideal. CULTURE: 256,000 seeds per oz/28 g. For pak sales or May blooms sow Jan.15th-Mar.15th at 70°F/21°C. For 20 days, as thin as possible. Transplant in clumps of 4 or 5 seedlings per clump, about 4 weeks later. Grow at 45-50°F/7-10°C. M = 1000 seeds or pellets.

### RAINBOW

Dwarf standards (5 in/12 cm).

**1042 Rainbow Mix** Blend of green leaf types

**1044 Cambridge Blue** Light blue, light green leaf

**1048 White Lady** Pure white, green leaf

**1050 Crystal Palace** Dark blue, bronze leaf

**1052 Mrs. Clibran** Dark blue/white eye, green leaf

Rainbow prices: Pkt. (500 seeds) \$2.65; 1/16 oz.

\$4.55; 1/4 oz. \$13.75; 1/2 oz. \$20.35; oz. \$40.70.

**1046B Cobalt Blue** Dark blue, green leaf. Pkt. (500 seeds) \$2.55; 1/16 oz. \$8.60; 1/4 oz. \$25.40; 1/2 oz. \$43.35; oz. \$86.70.

**1043A Belinda Blue** (4 in/10 cm) Earlier - crop time 10 weeks. Cobalt blue, dark green leaves. Uniform plant habit. Pkt. (100 seeds) \$2.20; 1,000 seeds & over \$3.19 per M. Film-coated seed.

### DWARF RIVIERA

(4 in/10 cm) Blooms 2 weeks earlier than Rainbow Series. Midnight is a Crystal Palace type, with bronze leaves. Others have green leaves. PVP - Lilac & Blue Splash. Multi-pellet only.

**P1046 Lilac**

**P1046C Blue Splash**

**P1046E Blue Eyes**

**P1046G Midnight**

**P1046M Old Riviera Mix**

Riviera multi-pellet prices: Pkt. (50 pellets) \$2.45; 1,000 pellets & over \$9.86 per M.



## TRAILING LOBELIA

### CASCADES

(8 in/20 cm) Cascades are especially suited for hanging baskets.

**1051A Blue**

**1051D White**

**1051E Red**

**1051 Sapphire** Blue/white eye

**1051M Color Cascades Mix**

Cascades prices: Pkt. (500 seeds) \$2.35; 1/32 oz. \$4.65;

1/16 oz. \$6.75; 1/4 oz. \$22.15; oz. \$63.25.

### REGATTA

(8 in/20 cm) 12 in/30 cm spread. An excellent choice for hanging baskets. About 10 days earlier than Cascades. Multi-pellets only.

**P1040A Blue Splash**

**P1040C Marine**

**P1040E Rose**

**P1040G White**

**P1040M Mix**

Regatta prices: Pkt. (50 pellets) \$2.45; 1,000 pellets & over \$12.63 per M.



## TALL LOBELIA

### COMPLIMENT

(30 in/75 cm) Hardy annual that will over winter if protected. Flowers July-Sept. Seed indoors in February.

**1041D Deep Red**

**1041 Mix**

Compliment prices: Pkt. (25 seeds) \$3.65; 500 seeds \$42.40; 1,000 seeds & over \$60.66 per M.



## KOCHIA (Burning Bush)

CULTURE: 28,000 per oz/28 g. Sow indoors Mar.20th - Apr.15th. Germinate at 65-75°F/18-24°C soil temp. Grow at 60°F/16°C. Sow outdoors May 15th - scatter in rows 12 in/30 cm wide for hedge effect. Likes full sun. Never over water seedlings.

**1005 Burning Bush** (30 in/76 cm) Trichophylla Green hedge-like foliage turns red in late Aug. Pkt. (400 seeds) \$1.90; 1/8 oz. \$2.90; oz. \$5.10.



## LARKSPUR



CULTURE: Annual delphinium. 8,000 seeds per oz/28 g sows 600 ft /186 m of row. 1/4 oz/7.2 g seed per 1,000 plants. Sow March 20th; 10-12 weeks from seed to sale as a bedding plant. Cut flower growers should sow outdoors a week after the last frost. For spring cuts sow in September.

**1022A White King**

**1022J Blue Bell Azure**

**1022K Blue Spire**

**1022 King Size Mix** (20 in/50 cm) Large double

tetraploid 1.5 in/4 cm shatter resistant florets.

Larkspur prices: Pkt. (100 seeds) \$2.20; 1/4 oz. \$6.25; oz. \$15.95; 1/4 lb. \$46.70.

### CANNES

100% double flowered. Used as a commercial cut flower in greenhouse or outdoor cultures. Grows 32-48 in/81-122 cm, depending on day length (short in winter/longer in summer). Allow 160 days crop time in winter and 120 days in summer. Stake for straight stems.

**1961A Deep Blue**

**1961B Lilac**

**1961C Rose Stripe**

Cannes prices: Pkt. (50 seeds) \$2.45; 250 seeds \$7.30; 1,000 seeds & over \$18.52 per M.



## MESEMBRYANTHEMUM



ICE PLANT CULTURE: 112,000 per oz/28 g. Sow direct into 2.25 in/ 6 cm peat pots March 15th. Press seed into soil surface - do not cover. Germinate at 70°F/ 21°C.

**1095A Livingstone Daisy Mix** (6 in/15 cm) Blend of six colors. Pkt. (700 seeds) \$2.20; 1/8 oz. \$3.80; 1/4 oz. \$5.25; 1/2 oz. \$8.05.



Lobelia - Belinda Blue



Kochia - Burning Bush



Lobelia - Regatta Rose



Lobelia - Riviera Blue Eyes



Lobelia - Regatta Sky Blue



Lobelia - Regatta Lilac



## LAVATERA (Mallow)

CULTURE: 3,000 seeds per oz/28 g. Seed looks similar to hibiscus. 4 in/10 cm flowers have distinct waxy sheen with nice green foliage. Sow indoors in peat pots February - March. Germinate at 70°F/21°C for 14-21 days, cover seed. Plants reach 24 in/60 cm in height and bloom by mid July. Great cut flower.

**987A Silver Cup** (24 in/60 cm) Rose. Pkt. (25 seeds) \$2.20; 1/4 oz \$4.65; 1/2 oz \$8.10; oz \$12.45.

**987B Mont Blanc** (24 in/60 cm) White. Pkt. (25 seeds) \$2.20; 250 seeds \$2.80; 1,000 seeds & over \$4.78 per M.



## DWARF LAVATERA

4 in/10 cm plants are suitable for commercial pot production. Early flowering with 3 in/9 cm single blooms. Grow 8 in/20 cm plants in pots. Taller garden height up to 24 in/60 cm. Filmcoated seed.

**987N Novella Rose** Rose on creamy pink. Pkt. (15 seeds) \$2.30; 250 seeds \$16.90; 1,000 seeds \$39.59 per M.



## HYBRID DWARF LISIANTHUS



CULTURE: Seed is very small, 625,000 seeds per oz/28 g or 22,000 per g, so we offer only pelleted seed. For bedding plant sales sow Feb. 15th for green/pak sales in May. For cutting crops sow dwarf types Aug.15th for April blooms or Nov. for June flowers. Germinate at 70°F/20°C, thin and transplant 2 months later. Cut flowers last about 10 days. Biennial Eustoma (Zones 7-11).

(8 in/20 cm) Eustoma. An earlier flowering Lisa type. Dwarf, base branching plants do not require pinching or growth regulator. Allow 120 days from seedling to sale.

**P1018A Mermaid Blue**

**P1018C Mermaid Pink**

Pkt. (25 pellets) \$2.45; 500 pellets \$11.75; 1,000 pellets & over \$19.43 per M.





Dwarf African - Discovery Series



Semi-Dwarf African - Moonstruck Lemon Yellow



Tall African - Garland Orange



## HYBRID MARIGOLD - SEMI-DWARF AFRICAN



**CULTURE:** 11,250 seeds per oz/28 g. Germination takes 3-7 days in 75-80°F/ 24-27°C soil. Sow 1/8 oz/3.5 grams of seed for approx. 900-1,000 transplants. **GREENHOUSE:** Sow February 20th-March 10th - 1/4 in/6 mm deep, cover lightly with soil. Germinate at high soil temperatures (see above) using electric cables, if possible. Transplant into paks or pots about 4 weeks after seeding. Grow plants at a minimum night temp. of 50-60°F/10-16°C. June, July and early August sowings are ideal for indoor flowering pot sales, with initial blooms as late as October.



### DWARF AFRICAN



**CULTURE:** 9,000 seeds per oz/28 g. Germination takes 3-7 days at 75-80°F/24-27°C soil temperature. Sow 1/8 oz/3.5 g of seed for approx. 900-1,000 transplants. Sowing depth 1/4 in/6 mm. **EARLY SOWING:** This type must be sown Jan.10th - Feb.15th to provide some blooms 13 to 14 weeks later. To prevent Damping Off use a fungicide at time of seeding. Seed sown after Mar.1st will produce taller plants that take 18 weeks to bloom.

### ANTIGUA™

The ANTIGUA Series is NOT sensitive to daylength. Earlier than the Discovery types. Allow 8 weeks to a saleable pak or 10 weeks for pots. Compact, bushy, 10 in/25 cm plants in pots or 12 in/30 cm plants outdoors. Double 2.5 in/6 cm blooms. Detailed seed.

**D1064A Yellow**

**D1064B Orange**

**D1064C Gold**

**D1064D Primrose**

**D1064 Antigua Mixture**

Prices for Antigua colors & mix: Pkt (25 seeds) \$2.70; 100 seeds \$5.65; 1,000 seeds & over \$35.30 per M.

### DISCOVERY™

(10 in/25 cm) This All Season hybrid is NOT sensitive to daylength, which makes it more free flowering during long summer days than Crush types. Blooms are fully double and average 2.5 in/6 cm across. Plants flower about 11 weeks from sowing. Detailed seed.

**D1065A Yellow**

**D1065B Orange Golden orange**

Prices for Discovery colors: Pkt (25 seeds) \$2.90; 100 seeds \$6.00; 1,000 seeds & over \$38.28 per M.



Dwarf African - Antigua Primrose

### MOONSONG™

(12-15 in/30-38 cm) First color of the new Moonson series. The unique intense orange of the tight, fully double blooms shed water for longer lasting color. Excellent branching and stem strength means less breakage in handling. Upright blooms flower all summer. Use for 4 in/10 cm pots, massed beds. Crop time 10-12 weeks. Detailed seed.

**D1087A Moonson Deep Orange Incredible color.** AAS Winner. Pkt. (25 seeds) \$3.95; 100 seeds \$10.25; 1,000 seeds & over \$64.06 per M.

### INCA II™

(12-14 in/30-35 cm) The INCA II series is slightly shorter, with all colors flowering about 7 days earlier than the original Incas. Much stronger flower stems support fully double blooms. Detailed seed.

**D1082D Gold**

**D1082E Yellow**

**D1082F Orange**

**D1082G Primrose**

**D1082M Inca II Mix**

Prices for Inca II colors & mix: 100 seeds \$5.65; 1,000 seeds & over \$35.30 per M.

### MOONSTRUCK

(12-14 in/30-38 cm) Strong branching and superior flower quality makes Moonstruck perfect for premium production in large paks and pots. Huge dense flower heads shed water better and last longer in retail garden centers. Use in 4 in/10 cm pots and garden paks. Excellent garden performance. Detailed seed.

**D1098A Yellow**

**D1098C Deep Orange**

**D1098D Lemon Yellow**

Prices for Moonstruck colors: Pkt. (25 seeds) \$4.95; 100 seeds \$10.05; 1,000 seeds & over \$64.06 per M.

### VANILLA

(16 in/40 cm) F1 hybrid. Novel sturdy dark green bushy plants with double creamy white blooms. This superior pot plant produces large 2.5-3 in/6-7 cm blooms 11-12 weeks from seeding. Excellent garden performance. Ideal for borders, mass bed plantings, or large mixed containers. Detailed seed.

**D1065V Vanilla** Creamy white 100 seeds \$14.60; 250 seeds \$35.20; 1,000 seeds & over \$100.31 per M.



Semi-Dwarf African - Moonson Deep Orange



## TALL MARIGOLD

### LADY

(18 in/45 cm) This series is the standard for taller African doubles used for massed background plantings under cooler Northeastern conditions. Plants have very strong stems and fully double 3 in/7 cm blooms which are held well above the foliage. Use 4 in/10 cm pots or gallon containers. Lady mix contains yellow, orange, primrose and gold. Detailed seed.

**D1007 First Lady Clear Yellow.** AAS Winner.

**D1007A Lady Orange**

**D1007B Lady Mix**

Prices for Lady colors & mix: Pkt. (25 seeds) \$2.95; 100 seeds \$5.85; 1,000 seeds & over \$37.41 per M.



### GARLAND



(28-60 in/71-152 cm) First color in the Garland series. Garland orange provides continuous summer long flowering on extra tall, strong, wind tolerant stems with huge double deep orange blooms. Easy to grow and adaptable to a wide range of soil conditions in full sun areas. NOTE: Seeds are very large and very difficult to completely detail. This is a different seed size than we are used to dealing with. EZ Flow seed (extra large) is basically only 80% detailed seed and 20% that still have their tails on. It will not do well in mechanical seeders. Sow seed by hand for best results. Sold by weight, not by seed count.

**1671 Garland Orange** Deep orange large double blooms. Pkt. (25 seeds) \$3.75; 1/4 oz. \$41.95; oz. \$123.65.

### GOLD COIN

(24 in/60 cm) This F1 hybrid was our most popular tall marigold in the mid 1990's. Large double 5 in/12 cm blooms will flower on shorter medium height 18 in/45 cm plants during short day, winter greenhouse production or will produce taller 24 in/60 cm sturdy plants during the longer day length summer months. Used as a bedding plant for tall backgrounds. Detailed seed.

**D1063A Double Eagle** Golden orange Pkt. (25 seeds) \$2.90; 100 seeds \$5.45; 1,000 seeds \$34.02 per M.

**1055 Crackerjack** (35 in/90 cm) Improved Super African, more fully double than the old favorite with the same yellow, orange and gold color range. Used by cut flower growers for summer production and fall harvests. When used in chicken feed, hens produce eggs with darker yolks because of the high color concentration in the blooms. Popular O/P variety.

Pkt. (75 seeds) \$1.90; 1/4 oz. \$2.55; oz. \$7.50; 1/4 lb. \$21.25.



Tall African - Vanilla





## MARIGOLDS (Dwarf Double Carnation Flowered French)



**CULTURE:** Height 6-16 in/15-40 cm. Tagetes patula. 9,000 seeds per oz/28 g. Germination: 3-7 days at 75-80°F/24- 27°C soil temp. Sow 1/8 oz/3.5 g of seed for approx. 900-1,000 plants. **GREENHOUSE:** Several sowings are possible to spread transplanting over a longer period. We make 3 or 4 sowings about 2 weeks apart, starting about Feb.15th until late April for May or June blooms. Sow seed about 1/4 in/6 mm deep, cover lightly with coarse vermiculite or peat-lite mix, rather than soil. For best results use bottom heat (heating cables) and keep moist with tempered water to maintain soil temp. To bloom in paks sow the dwarf French 7 to 8 weeks before sale. Transplant seedlings into paks about 4 weeks after seeding. After transplanting, lower greenhouse growing temp. to 50-60°F/10-16°C. Temperatures lower than 50°F/10°C reduce growth rate and may affect the flowering date. We find that the newer dwarf French types may be grown at a cooler 50-55°F/10-13°C for shorter, stockier plants. **SMALL GROWERS:** Sow indoors in flats or pots April 1st as above for mid June blooms. Transplant into 3 in/8 cm pots about 25 days after seeding. Seed may also be sown in rows outdoors June 1st at soil temp. of 60°F/16°C. Transplant 3 weeks later 8 in/20 cm apart. Use a fungicide soil drench to control soil diseases. A systemic insecticide should be used twice a month to control red spider mite. Low outdoor night temperatures of 40°F/4°C may cause plants to turn purple and have slow growth - plants should green up as temperatures increase. Most dwarf French types average 275-375 seeds per g. **DETAILED SEED:** Provides 25% more seeds per oz.

### BONANZA

(8 in/20 cm) Larger flowered than the Janie types. Blooms average 2 in/5 cm. Bushy plants are early flowering and provide better hot summer garden performance than Janie types. Detailed seed.

**D1019 Yellow** **D1019A Orange**  
**D1019D Gold** **D1019F Mix**  
**D1019G Bee Gold/red fleck** **D1019J Flame**  
**D1019C Harmony Gold/mahogany**  
**D1019H Deep Orange** This is the deepest orange double carnation flowered french marigold available.  
 Prices for Bonanza colors & mix above: Pkt. (25 seeds) \$1.95; 1,000 seeds & over \$8.88 per M.

### LITTLE HERO™

(7 in/18 cm) The earliest flowering of the large flowered extra dwarf types. Excellent hot weather garden performance, ideal for late season sowings, where extreme greenhouse heat in May/early June can cause other strains to stretch. Seed to sale in 9 weeks. Detailed seed. PVP.

**D1072B Orange** **D1072C Yellow**  
 Prices for Little Hero orange & yellow: Pkt. (25 seeds) \$1.90; 1,000 seeds & over \$9.07 per M.

### HERO™

(10 in/25 cm) Early flowering in paks combined with good pot performance. Extra large 2 in/5 cm Bonanza type blooms are ready to sell in 10 weeks from seed. Vigorous bushy plants take more stress from cold June nights than Janies or Bonanzas. Detailed seed. PVP.

**D1069H Bee Gold/red flecks** **D1069B Orange**  
**D1069F Flame Red/gold flecks** **D1069A Yellow**  
**D1069D Harmony Orange/red** **D1069G Hero Mix**  
**D1069C Spry Yellow/red AAS Winner**  
 Prices for Hero colors & mix: Pkt. (25 seeds) \$1.90; 1,000 seeds & over \$8.86 per M.

### JANIE

(8 in/20 cm) A bit more dwarfed, all colors mature at the same height, making this series a good choice for pots or containers. Blooms about 2 or 3 days earlier than the Boys. Detailed seed. PVP.

**D1091A Flame Red/gold** **D1091B Bright Yellow**  
**D1091C Harmony Orange/red** **D1091D Primrose**  
**D1091E Spry Yellow/red** **D1091G Janie Mix**  
**D1091F Deep Orange** **D1091H Tangerine**  
 Prices for Janie colors & mix: Pkt. (25 seeds) \$1.95; 1,000 seeds & over \$8.88 per M.



**FANTASTIC foliage®**

**Amazon Mist Carex** **Kong Series Coleus**  
**Calico Ornamental Pepper** **Blue Dart Juncus**  
**Chocolate Mint Coleus** **Red Rooster Carex**  
**Dark Chocolate Coleus** **Javelin Juncus**  
**Emerald Falls Dichondra** **Jester Millet**  
**Gryphon Tuberous Begonia** **Limón Talinum**  
**Zephyr Deschampsia** **Purple Majesty Millet**  
**Peek-a-Boo Spilanthes** **Blue Arrows Juncus**  
**Spiky Blue Corynephorus** **Pony Tails Stipa**  
**Live Wire Isolepis Sedge** **Twisted Dart Juncus**  
**Wind Dancer Eragrostis** **Purple Lady Iresine**  
**Twisted Arrows Juncus** **Silver Falls Dichondra**  
**Silver Mist Helichrysum**

**Purple Flash Ornamental Pepper**  
**Black Pearl Ornamental Pepper**  
**Chocolate Covered Cherry Coleus**



Safari Bolero



Durango Orange



Durango Bee



Durango Gold



Safari Mix



Durango Mix

## CRESTED FRENCH ANEMONE FLOWERED

### SAFARI™

(13 in/33 cm) A larger Sophia type with a much larger, very flat crested flower, similar but earlier blooms. Detailed seed. PVP.

**D1070 Yellow** **D1070A Orange**  
**D1070B Scarlet** **D1070D Tangerine**  
**D1070G Red** **D1070J Yellow Fire**  
**D1070E Bolero Yellow with red splashes**  
**D1070M Safari Mix** Formula blend Safari colors  
 Prices for Safari colors & mix: Pkt. (25 seeds) \$2.15; 1,000 seeds & over \$7.78 per M.

### DURANGO®

(10-12 in/25-30 cm) Replaces Auroras with an improved, early, free flowering plant that is VERY uniform in height, with good base branching habit. Strong stems support 2-2.5 in/5-6 cm true anemone type blooms with rich colors. Great pak and outdoor performance! Detailed Seed.

**D1099A Bee** **D1099B Bolero**  
**D1099C Flame** **D1099D Gold**  
**D1099F Orange** **D1099G Red**  
**D1099H Tangerine** **D1099J Yellow**  
**D1099 Mix**  
**D1099K Outback Mix** Blend of Bolero, Red, Yellow, Tangerine  
 Prices for Durango colors & mix: Pkt. (25 seeds) \$1.95; 1,000 seeds & over \$8.88 per M.

## DWARF CARNATION FLOWERED

**1085 Yellow Boy** (8 in/20 cm) Pure yellow. 1/4 oz. \$12.30; oz. \$35.05; 1/4 lb. \$140.20.





Marigold - Disco Mix



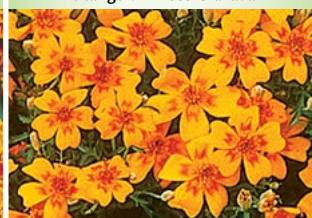
Marigold - Spanish Brocade



Marigold - Honeycomb



Marigold - Disco Granada



Marigold - Tangerine Gem



Morning Glory - Heavenly Blue



Marvel of Peru Mix

## FRENCH CRESTED OLD FAVORITES

These two varieties have been retained as old favorites in the Brocade or Sophia class. Honeycomb and Spanish Brocade, should produce saleable paks 60 days from seeding.

**1089 Honeycomb** (10 in/25 cm) An improved Fiesta-type bicolor orange and red. Pkt. (75 seeds) \$4.50; 1/8 oz. \$14.40; 1/4 oz. \$26.80; 1/2 oz. \$49.65; oz. \$76.50.

**1071 Spanish Brocade** (12 in/30 cm) Similar to Queen Bee. Orange splashed with red flecks, 2 in/5 cm semi-double, flat blooms. 60 days from seeding to sale. Pkt. (150 seeds) \$2.15; 1/4 oz. \$2.80; 1/2 oz. \$5.20; oz. \$9.70; 1/4 lb. \$29.75.



## SINGLE MARIGOLD

### DISCO

This extra dwarf collection of singles is recommended as early flowering, 10 weeks from seeding, bedding plants or use in 4 in/10 cm pots. Detailed seed only.

**D1060A Red**

**D1060C Orange**

**D1060H Granada Gold/red**

Prices for Disco colors: 1,000 seeds & over \$8.88 per M.

**D1060B Marietta**

**D1060F Yellow**

**D1060 Disco Mix** Formula blend of Disco colors. Packets available for Disco Mix only. Pkt. (25 seeds) \$2.15; 1,000 seeds & over \$8.88 per M.

## TAGETES

### MINI FLOWERED SINGLE TYPE

Very dwarf with distinct mound shaped, fern-like plants. Dime size blooms cover the plants. For window boxes, borders or rock gardens.

**1038 Tangerine Gem** (12 in/30 cm) Orange

**1073A Lulu** (8 in/20 cm) Lemon yellow

**1073 Little Giant** (8 in/20 cm) Gold

Prices for Tagetes colors: Pkt. (75 seeds) \$2.15; 1/4 oz. \$7.10; 1/2 oz. \$13.20; oz. \$20.30; 1/4 lb. \$81.20; 1/2 lb. \$162.40.



**Indicates NEW Varieties**  
Available from Stokes this year.



## MARVEL OF PERU



**FOUR O'CLOCK CULTURE:** Sow indoors April 1st in pots or outdoors June 1st. Blooms 60 days from seeding.

**1110 Marvel of Peru Mix** (24 in/60 cm) Rose, red, yellow, pink and white. Pkt. (40 seeds) \$2.15; 1/4 oz. \$2.90; oz. \$6.95; 1/4 lb. \$16.50.



## MATRICARIA (Feverfew)

**CULTURE:** 145,000 per oz/28 g. This species comes in two distinct plant forms - dwarf types for pot work and bedding - and tall types for florist cut flowers. Germinate in Jiffy Mix at 70°F/21°C soil temperature. Seed responds to light, so do not cover. Sow both types inside February 1st for June 15th blooms or outside June 1st for August cut flowers.

**1112B White Stars** (6 in/15 cm) A mound of star shaped white blooms, similar to small cushion mums. Makes a good potted plant. Pkt. (400 seeds) \$1.90; 1/32 oz. \$3.05; 1/8 oz. \$10.90; 1/4 oz. \$21.80.

**1112C White Wonder** (Tetra - 24 in/60 cm) All double tetraploid selection for florist indoor or outdoor cutting. Pkt. (25 seeds) \$2.15; 1,000 seeds & over \$5.42 per M.



## MATTHIOLA



### EVENING SCENTED STOCK

**CULTURE:** Sow May 15th, blooms all summer.

**1114 Bicornis** (18 in/46 cm) Sow in a sunny place for best plant growth. Press seed into soil surface. Seed germinates in about 14 days. Lilac/purple 2.5 in/4 cm blooms provide an intense fragrance all night long until early morning. Pkt. (350 seeds) \$1.90; 1/4 oz. \$3.60; oz. \$5.15.



## MIGNONETTE



**CULTURE:** 22,000 per oz/28 g. Sow indoors March 15th for earlier cut flower material. Germinate at 70°F/21°C soil temp. Sow outdoors May 15th for June 15th blooms, thin 6 in/15 cm apart. Easily grown from seed. Sweet fragrance.

**1105 Mignon Finest Mix** (12 in/30 cm) One of the finest fragrant annuals we list. Plants resemble stocks and can be used for cut flower arrangements or fragrant borders in semi shade. Pkt. (700 seeds) \$2.15; 1/4 oz. \$4.10; oz. \$6.85.



## MIMOSA (Sensitive Plant)

**CULTURE:** 4,500 per oz/28 g. Sow directly into 2.25 in/6 cm peat pots March 15th at 80°F/27°C soil temp. for 10 days - for May sales. Transplant outdoors in clumps May 30th. Plants are base branching and spread 10 in/25 cm at maturity. Transplant or thin to 8 in/20 cm apart. Sold green as a bedding plant.

**1006 Mimosa Pudica** (12 in/30 cm) Fern-like leaves fold up quickly when touched and re-open 15 min. later. An interesting novelty to amuse children. Pkt. (25 seeds) 2.15; 1,000 seeds & over \$8.00 per M.

## MORNING GLORY (Ipomoea)

**CULTURE:** Approx. 800 seeds per oz/28 g. (Moonflower: approx. 114 seeds per oz/28 g) Soak seed 48 hours in wet paper towel, or nick pointed end of seed with knife for faster germination. Sow indoors Apr.15th into 3 in/8 cm. Jiffy Strips, 3 seeds per pot (about 5 weeks from sales), 1/4 in/6 mm deep, cover & keep moist at 70°F/21°C soil temp. until seedlings appear. Stake each seedling to encourage climbing and prevent tangling. Sow directly outside May 30th; thin to 6 in/15 cm apart, support with trellis or fence.

**1115 Heavenly Blue** (12 ft/4 m) Sky blue flowers

**1116 Scarlet O'Hara** (8 ft/2.4 m) Rich dark red in color

**1117 Morning Glory Mix** Blend of 4 colors

Prices for Morning Glory colors & mix above: Pkt. (70 seeds) \$2.15; oz. \$6.95; 1/4 lb. \$16.50.

**1111A Cameo Elegance** Easy to grow plant with profuse blooms. Excellent as a climbing vine, in hanging baskets or as a trailing potted plant. Can climb 6-9 ft. Attractive foliage is variegated and blooms are a rose-red with a white throat. Pkt. (70 seeds) \$2.15; 1,000 seeds \$8.65; 1,000 seeds & over \$12.39 per M.

**1118 Moonflower** Huge fragrant white blooms on a night flowering vine. Pkt. (25 seeds) \$2.15; oz. \$6.95; 1/4 lb. \$16.50.



## DWARF MORNING GLORY



**CULTURE:** 476 per oz/28 g. Sow indoors in peat pots May 1st and set outside in June. Sow outdoors May 20th space 12 in/30 cm apart. Direct seeding in pots or hanging baskets is recommended as morning glories are difficult to transplant.

**1122 Dwarf Picotee Mix** Bush convovulus (12 in/30 cm) Bushy bright green and white foliage combined with red, pink, azure blue, salmon blooms with unique picotee-white margins. Sells on sight. Pkt. (20 seeds) \$4.50; 1/4 oz. \$24.65; 1/2 oz. \$29.20; oz. \$44.80; 1/4 lb. \$179.20.



Mimosa Pudica



Matricaria - White Wonder



Matthiola - Bicornis



Morning Glory - Moonflower



Morning Glory - Dwarf Picotee Mix

Stokes Seeds Inc.





Nasturtium - Whirlybird Mix



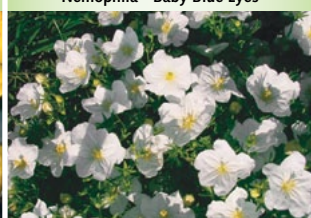
Nasturtium - Alaska Mix



Nasturtium - Peach Melba



Nemophila - Baby Blue Eyes



Nierembergia - White Robe



Nigella - Mulberry Rose



Nolana - Sky Blue



Nicotiana - Perfume Mix



## NASTURTITIUM



**CULTURE:** Approx. 175 seeds per oz/28 g. Sow seed directly into peat pots, hanging baskets or containers. For bedding plant sales, sow April 10th, 4-5 weeks before sale. Sow outdoors May 1st after the ground warms up. Thin seedlings to 8 in/20 cm apart. Plants bloom about 50 days from seeding. Popular as an edible flower to garnish salad bars.

**1126 Tall Dark Foliage Mix** (2 ft/60 cm) Excellent ground cover for sunny slopes. Orange, gold and red double flowers.

**1128A Jewel Mix** (12 in/30 cm) A rainbow of brilliant yellow, red, orange, pink, chamois, rose and some bicolored double blooms. Standard bedding plant strain.

**1128 Empress of India** (2 ft/60 cm) Cascading clumps of single dark scarlet flowers for hanging baskets.

Prices for Nasturtiums above: Pkt. (25 seeds) \$2.35; oz. \$5.50; 1/4 lb. \$14.70; 1/2 lb. \$29.40.

**1130 Alaska Mix** (12 in/30 cm) Unusual creamy-white and green foliage plus all the popular colors. Bicolored foliage is great for rock gardens or hanging baskets. Pkt. (25 seeds) \$2.35; oz. \$9.50; 1/4 lb. \$25.25; 1/2 lb. \$50.50; lb. & over \$101.00 per lb.

### WHIRLYBIRD

(12 in/30 cm) A top blooming series with separate colors and mixture. Flowers are without the usual black spur, and consequently are able to sit open-faced, right on the top of the stem. Excellent for hanging baskets, rock gardens or flower beds.

**1124A Cherry Rose**

**1124B Gold**

**1124C Mahogany**

**1124E Scarlet**

**1124 Whirlybird Mix**

Prices for Whirlybird colors & mix: Pkt. (25 seeds) \$2.15; oz. \$6.75; 1/4 lb. \$17.95; 1/2 lb. \$35.90; lb. & over \$71.80 per lb.

**1124J Peach Melba** Pkt. (25 seeds) \$2.15; oz. \$12.65; 1/4 lb. \$33.65; 1/2 lb. \$67.30; lb. & over \$134.60.



## NEMESIA (Nana Compacta)



**CULTURE:** Approx. 90,000-140,000 seeds per oz/28 g. Sow indoors for pots in February for May sales with pansies, or outdoors in April for late June blooms. Germinate at 60-65°F/16-18°C for 10-14 days cover seed lightly. Grow plants cool at 55°F/13°C.

**1141A Miniature Red & White** (6 in/18 cm) Bicolor

**1141B Miniature Blue & White** (6 in/18 cm) Bicolor  
Miniature prices: Pkt. (150 seeds) \$1.90; 1,000 seeds & over \$3.90 per M.



### POETRY™

Competes well with vegetative varieties. Plants branch nicely without pinching. All colors are fragrant and well suited for bedding plants or container use. Cool crop companion with pansies. Crop time 11-12 weeks. Pelleted Seed.



**P1144 Poetry Mix** Formula blend of lavender pink, blue, white, deep pink.



**P1144E Deep Pink** **P1144B Blue**  
**P1144C Lavender Pink** **P1144D White**

Poetry prices: Pkt. (10 pellets) \$4.35; 250 pellets \$16.15; 1,000 pellets & over \$38.89 per M.



## NEMOPHILA (Insignis Blue)



**CULTURE:** 11,000 seeds per oz/28 g. Sow directly into peat pots or paks April 15th for late May sales. Flowers in June. Germinate at 70°F/21°C. Sow outdoors in May, thin to 8 in/20 cm apart.

**1129 Baby Blue Eyes** (4 in/10 cm) An ideal border plant. Sow where it is to bloom May 15th, to produce a cloud of cup shaped flowers, sky blue in color. Season from June till frost. Pkt. (250 seeds) \$1.90; 1/8 oz. \$2.70; 1/4 oz. \$3.60; oz. \$14.40.



## NIEREMBERGIA

**CULTURE:** About 168,000 seeds per oz/28 g. Sow indoors Jan. 1 - March 1 for May or July blooms. A dwarf rock garden plant that will not fade during hot summers. Prefers semi-shade.

**1143 Purple Robe** (8 in/20 cm) Neat compact plants are covered with dark purple blooms. AAS Winner. Pkt. (250 seeds) \$2.15; 1/16 oz. \$7.30; 1/4 oz. \$19.50.

**1143C White Robe** (8 in/20 cm) Pure white Pkt. (50 seeds) \$2.25; 500 seeds \$5.75; 1,000 seeds & over \$8.49 per M.



## NIGELLA (Love in the Mist)



**CULTURE:** 11,000 seeds per oz/28 g. Can be used for fresh cut flowers or dried seed pods. First cuts are the best quality, so successive sowings are recommended several weeks apart for a continuous supply. Sow outdoors May 20th after danger of frost. Plants do not transplant well, direct sowings are advised. In mild climates sow in Sept. and overwinter for spring blooms. Seed germinates 20 days at 60°F/16°C. Double blooms, veined seed pods.

**1140A Mulberry Rose** (24 in/60 cm) Large 2 in/5 cm double, rose and pink blooms. Pkt. (100 seeds) \$2.15; 1/4 oz. \$3.45; oz. \$9.85; 1/4 lb. \$39.40.



## NOLANA



**CULTURE:** Annual. Approx. 5,500 seeds per oz/28 g. Sow indoors in pots or paks 6 weeks before May sales. Easy to grow. Used primarily in hanging baskets. Produces blooms in 8-10 weeks from seed. Blooms in cooler early summer months. Remove seed pods after flowering (like pansies) to encourage blooms. Germinate at 70°F/21°C for 15 days, press seed into soil surface, but do not cover.

**1113 Sky Blue** (4 in/10 cm) Dwarf, creeping plants spread 15 in/38 cm producing masses of 2 in/5 cm morning glory type blooms. Sky blue with contrasting large white throats. Likes dry, sunny areas. Pkt. (50 seeds) \$2.15; 1/16 oz. \$3.05; 1/8 oz. \$4.95; 1/4 oz. \$7.10; oz. \$28.40.



Nemesia - Poetry Mix



## NICOTIANA



### FLOWERING TOBACCO

**CULTURE:** 168,000 per oz/28 g. Sow March 10th-April 1st indoors at 75°F/24°C soil temperature for 14 days. Do not cover seed - needs light for germination. Sow outdoors May 15th. Blooms 6 weeks from seed.

**1137A Crimson King** (15 in/38 cm) Deep crimson

**1137 White** (36 in/91 cm) Noted for it's fine perfume.

**1134 Daylight Sensation** (29 in/75 cm) Blooms in the day. Colors in shades of white, pink and carmine.

Flowering Tobacco prices: Pkt. (1,000 seeds) \$2.15; 1/8 oz. \$3.55; 1/4 oz. \$5.90; 1/2 oz. \$8.40; oz. \$16.80.

### HYBRID NICOTIANA

250,000 seeds per oz/28 g. Bushy free flowering plants. Sow about March 1st, transplant into 2.25 in/6 cm containers for sale. For June 6 in/15 cm pot sales, sow 10 to 12 weeks before sales. No pinching. Allow 10-12 weeks from seeding for flowering pots; 6 weeks for the sale of green bedding plants. Responds to Cycocel 3 weeks after transplanting.

### PERFUME

(16 in/40 cm) Highly scented. Ideal for 4 in/10 cm pots.

**1142A Deep Purple** AAS Winner

**1142B Perfume Mix** Blend of 6 colors

Perfume prices: Pkt. (50 seeds) \$2.15; 1,000 seeds & over \$8.30 per M.

### SARATOGA™

(10 in/25 cm) The earliest and shortest nicotiana on the market. Vigorous seedlings produce uniform plants for use in paks, 4 in/10 cm pots or gallon containers. Pelleted seed only.

**P1196A White**

**P1196B Red**

**P1196C Lime**

**P1196F Appleblossom**

**P1196E Purple Bicolor**

**P1196 Saratoga Mix** Blend of 8 colors

Saratoga prices: Pkt. (50 pellets) \$2.35; 1,000 pellets & over \$17.87 per M.



Nicotiana - Saratoga Mix





## HYBRID PANSY



### DELTA™ PREMIUM SERIES

(4-6 in/10-15 cm) Large 3 in/7 cm blooms in a wide color range of clear and blotched types. Bred for increased overall plant strength and vigor. Uniform plants are extremely heat and weather tolerant. Short, sturdy stems hold blooms upright for maximum appeal. Hardy below the 43rd parallel (Detroit Michigan).

- |                                 |                                 |
|---------------------------------|---------------------------------|
| <b>1744A Beaconsfield</b>       | <b>1744M Pure Violet</b>        |
| <b>1744B Deep Blue Blotch</b>   | <b>1744N Pure White</b>         |
| <b>1744C Gold Blotch</b>        | <b>1744P Pure Yellow</b>        |
| <b>1744D Marina</b>             | <b>1744R Red Blotch</b>         |
| <b>1744E Neon Violet</b>        | <b>1744S Rose Blotch</b>        |
| <b>1744G Primrose Blotch</b>    | <b>1744U True Blue</b>          |
| <b>1744T Tapestry Red/gold</b>  | <b>1744V Violet &amp; White</b> |
| <b>1744H Pure Golden Yellow</b> | <b>1744W White Blotch</b>       |
| <b>1744J Pure Lemon</b>         | <b>1744X Yellow Blotch</b>      |
| <b>1744K Pure Light Blue</b>    | <b>1744L Pure Primrose</b>      |
| <b>1744Y Yellow/Purple Wing</b> |                                 |
| <b>1744F Persian Medley</b>     | Lilac shades                    |
| <b>1744Q Purple Medley</b>      | Purple shades                   |
| <b>1744 Delta Premium Mix</b>   | Blend of best Delta colors      |
| <b>1744Z Blotch Mix</b>         | Blend of colors with blotches   |

Prices for Delta Premium colors & mixes: Pkt. (20 seeds) \$2.90; 250 seeds \$13.35; 1,000 seeds & over \$31.22 per M.

### MAMMOTH™

(6-8 in/15-20 cm) F1 Hybrid. The most uniform extra large pansy on the market. Compare to Colossus XXL and Majestic Giants II. All 11 colors provide excellent contrasts. Use for spring or fall sales. A strong branching habit fills containers quickly, resisting stretching in the greenhouse and outdoors during warm weather - due to a strong robust root system. Extra large blooms have firm petals that stand up to rain and irrigation. Compact plants have reduced daylength sensitivity which provides excellent foliage/bloom ratios during spring and fall conditions. Crop time 10-12 weeks. Hardy below the 43rd parallel (Detroit, Michigan). M = 1,000 Seeds or Pellets.

- 1735A Big Red** Dark red/black blotch/gold eye  
**1735B Blue-ti-ful** Blue/black blotch/gold eye  
**1735C Deep Blue** Dazzle with black blotch/gold eye  
**1735D Glamarama** White with purple blotch/gold eye  
**1735E On Fire** Red Cap/yellow picotee/dk brown blotch  
**1735F Prima Yellowina** Mid yellow/strong yellow blotch  
**1735G Queen Yellow Bee** Yellow/reddish brown blotch  
**1735H Rocky Rose** Wine rose/black blotch/gold eye  
**1735J Sangria Punch** Scarlet/yellow picotee/wine blotch  
**1735K Viva la Violet** Cap/white picotee/violet blotch  
**1735L White Hot** Pure white/yellow eye  
**1735M Pink Berry** Pink shades  
**1735 Mammoth Mix** Formula blend of above colors  
 Prices for Mammoth colors & mix: Pkt. (20 seeds) \$2.90; 250 seeds \$13.75; 1,000 seeds & over \$32.19 per M.

**U.S. Protected Variety**  
**PVP** Seed must not be reproduced for sale without permission of the originator.

### KARMA™

Superior flower quality, increased plant strength and vigor. Good seed quality and plug performance. Uniform maturity throughout the extensive color range, high bud counts, Base branching, non-stretching plant habit quickly fills containers and shades roots. Croptimes: Fall, 8-10 wks; Spring, 10-12 wks; Paks from transplants, 4-5 wks; 4 in/20 cm pots, 4-5 wks. Hardy to 44th parallel.

- |                               |                                     |
|-------------------------------|-------------------------------------|
| <b>1737N Lemon</b>            | <b>1736A Blue Blotch</b>            |
| <b>1736B Blue Butterfly</b>   | <b>1736C Deep Blue Blotch</b>       |
| <b>1736E Fire</b>             | <b>1736F Lavender Shades</b>        |
| <b>1736G Orange</b>           | <b>1736H Red Blotch</b>             |
| <b>1736J Rose</b>             | <b>1736K Rose Blotch</b>            |
| <b>1736L True Blue</b>        | <b>1737L Copperfield</b>            |
| <b>1737M Pink Blotch</b>      | <b>1736M White</b>                  |
| <b>1736N White Blotch</b>     | <b>1736P Yellow</b>                 |
| <b>1736Q Yellow Blotch</b>    | <b>1736S Deep Orange</b>            |
| <b>1736U Rose Fire</b>        | <b>1736Z Midnight Sun</b>           |
| <b>1736V Violet with Face</b> |                                     |
| <b>1736Y Purple Wing</b>      | Wine with yellow picotee            |
| <b>1736 Karma Mix</b>         | Blend of best plain & blotch colors |
- Prices for Karma colors & mix: Pkt. (20 seeds) \$2.90; 250 seeds \$13.35; 500 seeds \$23.55; 1,000 seeds & over \$31.22 per M.

### SPRING MATRIX

(8 in/20 cm) Grower tested and selected throughout northern USA, Canada and Europe to provide extra short plant stems, thicker flower petals to resist curling. A better base branching plant habit that resists stretching and produces earlier spring flowers per plant. Spring Matrix is very uniform and has superior performance under short daylength during late spring conditions, which provides better flower production for earlier sales. Spread 8-10 in/20-25 cm.

- |                                       |                              |
|---------------------------------------|------------------------------|
| <b>1738T Blue Wing</b>                | <b>1738H Pink Shades</b>     |
| <b>1738U Rose Blotch</b>              | <b>1738A Blue</b>            |
| <b>1738B Blue/Blotch</b>              | <b>1738C Deep Orange</b>     |
| <b>1738D Golden Yellow/Blotch</b>     | <b>1738E Lemon</b>           |
| <b>1738F Midnight Glow</b>            | <b>1738G Ocean</b>           |
| <b>1738J Purple</b>                   | <b>1738K Red/Blotch</b>      |
| <b>1738L Rose</b>                     | <b>1738M Sangria</b> Bicolor |
| <b>1738N Scarlet</b>                  | <b>1738P White</b>           |
| <b>1738Q White/Blotch</b>             | <b>1738R Yellow</b>          |
| <b>1738S Yellow/Blotch</b>            |                              |
| <b>1738Y Spring Matrix Blotch Mix</b> |                              |
| <b>1738Z Spring Matrix Clear Mix</b>  |                              |
| <b>1738 Spring Matrix Mix</b>         | Formula blend of colors      |

Prices for Spring Matrix colors & mixes: Pkt. (20 seeds) \$2.90; 250 seeds \$14.10; 1,000 seeds & over \$33.03 per M.



Delta Persian Medley



Halloween II



Spring Matrix Mix



Frizzle Sizzle Mix

## FRINGED VARIETY

### FRIZZLE SIZZLE

An F1 hybrid version of the fringed or ruffled edge chalon type. Plants average 4 in/10 cm and provide finished plants in about 10 weeks from seeding. Large 3 in/7 cm single ruffled blooms on well-branched uniform plants. Excellent for pots or massed beds.

- |                                |                                |
|--------------------------------|--------------------------------|
| <b>1989A Blue</b>              | <b>1989B Burgundy</b>          |
| <b>1989C Yellow</b>            | <b>1989D Yellow/Blue Swirl</b> |
| <b>1989E Orange</b>            | <b>1989G Raspberry</b>         |
| <b>1989F Passion Fruit</b>     | Rose shades/yellow blotch      |
| <b>1989 Frizzle Sizzle Mix</b> | Blend of above colors          |

Prices for Frizzle Sizzle colors & mix: Pkt. (20 seeds) \$2.90; 500 seeds \$24.90; 1,000 seeds & over \$33.03 per M.

### UNIQUE COLORS

- 1131A Padparadja** Dark orange face on 2 in/5 cm blooms. Heat tolerant. AAS Winner. Pkt. (25 seeds) \$2.35; 250 seeds \$9.95; 1,000 seeds & over \$16.88 per M.  
**1192A Halloween II** Pure black with yellow eye. Pkt. (20 seeds) \$2.35; 250 seeds \$16.25; 500 seeds \$26.05; 1,000 seeds & over \$34.60 per M.  
**1157C Ultima Morpho** Blue/yellow. AAS Winner. Pkt. (20 seeds) \$3.85; 250 seeds \$15.95; 500 seeds \$28.15; 1,000 seeds & over \$37.35 per M.

### MAJESTIC GIANTS II

Larger flower size, with earlier, more compact plant and freer flowering than original series. Hardy below Detroit, Michigan.

- 1195 Majestic Giants II Mix** 250 seeds \$14.75; 500 seeds \$26.00; 1,000 seeds & over \$34.49 per M.

### F2 HYBRID PANSIES

- 1146 Joker Light Blue** Tricolor face. Light blue/white halo/dark blue face, yellow eye.  
**1146C Joker Poker Face** Replaces Jolly Joker. Same dark orange petals/purple cap with black face.  
 Prices for Joker colors: Pkt. (25 seeds) \$2.35; 250 seeds \$8.45; 1,000 seeds & over \$14.40 per M.  
**1139 Saint Tropez Mix** F2 hybrid version of Majestic. Blooms are 10% smaller, averaging 2.75 in/7 cm in size. Wide color range! Pkt. (25 seeds) \$2.20; 250 seeds \$5.40; 1,000 seeds & over \$9.24 per M.

### STOKES SWISS GIANT PANSIES

Noted for robust habit of growth and large, long stemmed blooms. Winter hardy strain to zone 4B. Best O/P variety. Over 10 color formula blend. Popular with large commercial growers.

- 1145 Exhibition Mix** Formula blend from the most popular European grown plain and blotched types. Pkt. (125 seeds) \$2.20; 1/16 oz. \$9.50; 1/8 oz. \$15.50; 1/2 oz. \$48.45.





Panola Clear Mix XP



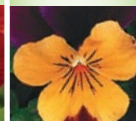
Sorbet 1987Q



Panola XP 1103Y



Panola XP 1103D



Sorbet 1378Q



Penny 1742N



Penny 1742L



Penny Purple Picotee



Penny Primrose Picotee



Penny Deep Marina



Shangri-La Marina



WonderFall Lavender Picotee Shades



WonderFall Yellow w/Blotch



## VIOLAS - MINI PANSIES & TRAILING PANSIES



Approx. 40 seeds per 1/512 oz/0.11 g. Approx. 17,000-28,000 seeds per oz/28 g. Seed size varies according to color. Most growers treat pansies and violas as annual crop - sowing seed in the greenhouse from Dec.15th- Feb.15th for early spring or summer sales. Allow 14-18 weeks from seed to sale for paks and 16-20 for pots. Pre-chill seed at 35-40°F/2-4°C for 24 hours. Sow seed in shallow 1/8 in/3 mm deep trenches, press seed into the surface and cover lightly with a dusting of fine soil. Keep soil temps. cool at 65-70°F/18-21°C for 8-15 days. Cover seed flats with black plastic or newspaper. Keep seeds without light until germination. Choose a cool shaded area out of direct sunlight so you will not cook the seed under the plastic. Reduce soil temperatures to 50°F/10°C after germination. Transplant 4 weeks later - grow plants cool, in well ventilated area. **M = 1,000 Seeds or Pellets.**



### F1 HYBRID VIOLA



#### SORBET™ ORIGINAL COLORS

(6 in/15 cm) The original Sorbets have many tricolour patterns with contrasting caps, whiskers and eye colours. Crop time 60 days from seed. Zone 5B.

**1379C Carmine Rose**

**1379D Midnight Glow**

**1379E Peach Melba**

**1377A Purple Jump-up** Purple/blue whiskers/yellow eye

**1377J Sunny Royale** Yellow/wine wing, whiskers

**1377K Y.T.T. (Yesterday, Today, Tomorrow)** Changes color as it matures, opens white then to shades of blue

**1377N Blue Heaven** Blue/dark blue wsk/yellow eye

**1378Q Orange Jump-up** Purple cap with orange face

**1378R Primrose Babyface** Lemon & yellow/black wsk

**1377S Lilac Ice** Light lilac lavender, no face

**1377V Black Jump-up** Bicolor purple/black wing

**1377Y Coconut Swirl** White/blue picotee

Prices for Sorbet original colors: Pkt. (20 seeds) \$2.55; 500 seeds \$18.80; 1,000 seeds & over \$24.97 per M.

#### SORBET™ IMPROVED XP COLORS

**NEW 1987Y Red Blotch XP**

**1987W Pink Halo XP**

**1987V Marina XP**

**1987X Yellow Frost XP**

**1987A Beaconsfield XP**

**1987B Blue/Blotch XP**

**1987C White Jump-up XP**

**1987H Purple XP**

**1987K Violet Beacon XP**

**1987J Purple Ice XP**

**1987N Yellow/Blotch XP**

**1987L White XP**

**1987D Lavender Vein XP**

**1987M Yellow XP**

**1987P Yellow Jump-up XP**

**1987F Orange XP**

**1987E Lemon Jump-up XP**

**1987R Raspberry XP**

**1987Q Delft Blue XP**

**1987Z Mix XP**

**1987U Blackberry XP**

**1987G Orchid Rose Beacon XP**

**1987T Lemon Blueberry Swirl XP**

Prices for XP type, colors & mix: Pkt. (20 seeds) \$2.55; 500 seeds \$18.80; 1,000 seeds & over \$24.97 per M.

#### PENNY™

(4-6 in/10-15 cm) Penny's unique mounded plant habit suits a wide range of pot and container sizes. Tolerates more heat and stretches less than other hybrid violas. Hardy to 44th parallel. Spring croptime 11-13 weeks. Fall croptime 9-10 weeks.

**NEW 1742Y Deep Marina**

**1742A Orange**

**1742B Orange Jump-up/wine**

**1742C Red/Blotch**

**1742D White Jump-up/wine**

**1742F Yellow**

**1742E Yellow Jump-up/wine**

**1742G Orchid**

**1742H Peach Jump-up/purple**

**1742J Purple Picotee**

**1742L Denim Jump-up/blues**

**1742N Mickey**

**1742P Red Wing**

**1742Q Clear Yellow**

**1742R White/Blotch**

**1742S Marlies**

**1742T Primrose Picotee** Yellow/purple

**1742W Azure Dawn** Pastel blue and yellow shades

**1742 All-Seasons Mix** Blue/orange/yellow/yellow frost

Prices for Penny colors & mix: Pkt. (20 seeds) \$2.45; 500 seeds \$17.60; 1,000 seeds & over \$23.33 per M.

### SKIPPY XL

A popular viola which includes two AAS Winners. Hardy to zone 5B. Spring crop time approx. 6 weeks; fall 10 weeks.

**1985A Blue/yellow**

**1985B Bronze/gold**

**1985C Deep blue/Blotch** 1985F Plum/gold AAS Winner

**1985D Purple Duet** 1985E Red/gold AAS Winner

Prices for Skippy XL colors: Pkt. (20 seeds) \$2.55; 500 seeds \$18.80; 1,000 seeds & over \$24.97 per M.



### MINI HYBRID PANSY



#### PANOLA® XP

(6-8 in/15-20 cm) Free flowering, resists stretching in warm weather, are very early and hardy to the 44th parallel (Toronto, Chicago) Crop time 60 days. XP = Improved

**1103A Beaconsfield XP**

**1104A Marina XP**

**1103B Deep Blue/Blotch XP**

**1104B Yellow XP**

**1103D Fire XP**

**1103L Purple/Face XP**

**1103H Deep Orange XP**

**1103R True Blue XP**

**1103T White/Blotch XP**

**1103S White XP**

**1103Y Rose Picotee XP**

Prices for Panola colors: 250 seeds \$13.10; 1,000 seeds & over \$30.64 per M.

**1192M Halloween Mix XP** Orange/black/yellow eye

**1103M Autumn Blaze Mix XP** Red and yellow shades

**1103N Panola Mix XP** Full color mix

**1104S Clear Mix XP** Best of clear colors

**1103 Baby Boy Mix XP** White/True Blue/Marina

Prices for Panola mixes: Pkt. (20 seeds) \$2.95; 250 seeds \$13.10; 1,000 seeds & over \$30.64 per M.

### SUB-ZERO GROUND COVERS

F1 hybrid. Hardy above the 44th parallel (Toronto/Chicago). Trails or spreads to 12 in/30 cm. Use as ground cover or in hanging baskets. Rain blooms average 1.5 in/4 cm. Both Shangri-La Marina and Sky Blue Martien are 4 in/10 cm in height, are semi-spreading or trailing with 1.5 in/4 cm blooms and are AAS Winners.

**1189A Frosty Rain**

**1189 Purple Rain**

**1189B Blue & Purple Rain** AAS Winner

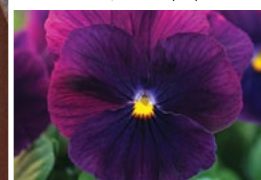
Prices for Rain colors: Pkt. (20 seeds) \$3.85; 250 seeds \$25.75; 1,000 seeds & over \$60.24 per M.

**1988A Shangri-La Marina** Pkt. (20 seeds) \$3.45; 250 seeds \$22.80; 1,000 seeds & over \$60.57 per M.

**1986A Sky Blue Martien** Pkt. (20 seeds) \$2.45; 500 seeds \$21.50; 1,000 seeds & over \$28.56 per M.



Cool Wave Golden Yellow



Cool Wave Purple



Cool Wave Frost



## (HYBRID TRAILING) PANSY

### WonderFall™

(8-10 in/20-25 cm) Unique plants spread 18-24 in/45-60 cm and have medium to large sized blooms. Vigorous well branched, early flowering habit requires fewer plants per container. Provides fast, uniform, well filled containers for spring sales of premium quarts, 6 in/15 cm pots and hanging baskets. Plants have a long shelf life with continuous flowering through all seasons. Crop time: Spring 10-12 weeks. Fall: 9-11 weeks from plugs.



**1754F Blue w/Blotch**



**1754G Purple**



**1754K Yellow**

**1754D Rose Shades/Face**



**1754L Yellow w/Blotch** 1754C Purple/Blue Shades

**1754A Blue Picotee Shades** 1754E Yellow/Red Wing

**1754B Lavender Picotee Shades**

Prices for WonderFall colors: Pkt. (20 seeds) \$5.65; 250 seeds \$54.10; 1,000 seeds & over \$144.03 per M.

### COOL WAVE®

(8 in/20 cm) Plants have a very prostrate, spreading 24-30 in/ 60-75 cm habit - perfect for hanging baskets and unique ground cover landscaping. Blooms are similar in size to mini pansies and hold up well in rainy weather better than large flowered types. Crop time: Seed to finish approx. 20-21 weeks. Primed Seed.



**R1748Z Pastel Mix** White, yellow, frost, violet wing



**R1748E Golden Yellow**



**R1748F Purple**

**R1748C White**

**R1748D Yellow**

**R1748A Frost** White/Blue Edge

**R1748B Violet Wing** White/Purple cap

**R1748 Cool Wave Mix** Above colors plus Lemon

Prices for Cool Wave colors & mix: Pkt. (20 seeds) \$6.75; 100 seeds \$25.60; 1,000 seeds & over \$170.38 per M.

### PLENTIFALL

(6-8 in/15-20 cm) First trailing mini-pansy from seed with a flat, spreading habit. Great for baskets, containers and landscapes. For early spring and fall sales. Medium sized blooms hold up well in rain. Plants have a well-branched habit and superior over-wintering hardiness.

**1747A Lavender Blue**

**1747B Purple Wing**

**1747C White**

**1747 Mix** Formula blend of 5 colors

Prices for Plentifall colors & mix: Pkt. (20 seeds) \$3.85; 100 seeds \$10.05; 1,000 seeds & over \$67.05 per M.





## HYBRID MULTIFLORA PELLETTED PETUNIAS



Multiflora petunias are much better garden performers than the more popular grandifloras. The Celebrity series has the earliness of grandifloras, the garden performance of the old multifloras, a slightly larger bloom and better pak and pot appearance. We prefer to call these "floribundas". GERMINATION: Most multifloras and grandifloras average 90% germ. CULTURE: For early spring container sales, start seed in Feb.-Mar. and transplant into paks or flats, then move transplants to containers about 4 weeks before sale. For early spring pak sales, allow 12 weeks from time of sowing at 50°F/10°C temperature. Germinate at soil temp. of 80°F/27°C in light (86°F/30°C air temp). A 80°F/27°C air temp. at night should maintain a 60°F/16°C soil temp. Use seedling mix as a growing medium with bottom heat if possible. All Multifloras are sold as pelleted seed only.

### MULTIFLORA HANGING BASKET TYPES

#### WAVE®

6 in/15 cm dwarf plants spread over 2 ft/0.6 m with 2 in/5 cm blooms. Allow 12-14 wks. The Waves are daylength sensitive and are slow to flower during short daylength (12 hours or less). Blue, Purple Classic and Lavender are AAS Winners. Pelleted seed only.

- |                    |                             |
|--------------------|-----------------------------|
| <b>P1200A Pink</b> | <b>P1200B Misty Lilac</b>   |
| <b>P1200C Rose</b> | <b>P1200E Lavender</b>      |
| <b>P1200F Blue</b> | <b>P1200 Purple Classic</b> |

Prices for Wave colors: 20 pellets \$8.20; 100 pellets \$25.75; 500 pellets \$92.75; 1,000 pellets & over \$171.25 per M.

#### EASY WAVE®

Earlier to flower under short daylength (12 hours or less) which provides more flowers in the paks during spring sales. Plant habit is a bit more mounded than the Waves - with a mature height of 8 in/20 cm and a spread of 2.5 ft/76 cm. Plants fill out well, stay full of blooms longer and look good all season. Pelleted seed only.

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>P1202B Pink</b>                  | <b>P1202C Shell Pink</b>          |
| <b>P1202D White</b>                 | <b>P1202E Salmon</b>              |
| <b>P1202F Blue</b>                  | <b>P1202G Red</b>                 |
| <b>P1202K Rosy Dawn</b>             | <b>P1202L Coral Reef</b>          |
| <b>P1202M Mystic Pink</b>           | <b>P1202N Burgundy Star</b>       |
| <b>P1202P Plum Vein</b>             | <b>P1202Q Violet</b>              |
| <b>P1202R Neon Rose</b>             |                                   |
| <b>P1202X Great Lakes Mix</b>       | <b>Violet, Blue &amp; White</b>   |
| <b>P1202Y Plum Pudding Mix</b>      | <b>Plum Vein &amp; Violet mix</b> |
| <b>P1202Z Easy Wave Formula Mix</b> | <b>Best color mix</b>             |

Prices for Easy Wave colors & mixes: 20 pellets \$8.20; 100 pellets \$25.75; 500 pellets \$92.75; 1,000 pellets & over \$171.25 per M.

#### TRILOGY™

(12 in/30 cm) Plant habit is spreading/trailing with blooms that are much tighter together than Easy Wave or Avalanche - which makes this series an excellent choice to replace Avalanche for hanging baskets and the Primetime series for regular beds. All colors have a long shelf life; flowers retain short internodes even after blooming and plants are less sensitive to daylength than other spreading petunias. Pelleted seed only.

- |                           |                       |
|---------------------------|-----------------------|
| <b>P1908B Purple</b>      | <b>P1908C Rose</b>    |
| <b>P1908E Salmon Morn</b> | <b>P1908F Scarlet</b> |
| <b>P1908G White</b>       |                       |

Prices for Trilogy colors: 20 pellets \$6.85; 100 pellets \$21.45; 1,000 pellets & over \$147.95 per M.

#### OPERA SUPREME

Similar to the original Wave type in its' prostrate 6 in/15 cm height, but with a much stronger stem and more abundant flowers. Crop time is only 10 weeks from seed. Excellent trailing/spreading habit, with plants extending to 3.5 ft/1.1 m wide (twice that of Waves). Pelleted seed only.

- |                               |                                     |
|-------------------------------|-------------------------------------|
| <b>P1203B Lilac Ice</b>       | <b>P1203E Raspberry Ice</b>         |
| <b>P1203A Opera Pink Morn</b> | <b>Rose pink/white. AAS Winner.</b> |

Prices for Opera Supreme pellets: 20 pellets \$7.45; 100 pellets \$21.95; 500 pellets \$78.40; 1,000 pellets & over \$146.04 per M.

#### RAMBLIN'™

Bred for its' rambling habit, Ramblin' grows to only 10-14 in/25-35 cm high, but spreads or trails to 30-36 in/75-90 cm. Plants are 2 weeks earlier than Waves, on short internodes. Crop time 10-12 weeks. Pelleted seed only.

- |                               |   |
|-------------------------------|---|
| <b>P1207A Burgundy Chrome</b> | <b>P1207B Lavender</b>                        |
| <b>P1207C Lilac Glo</b>       | <b>P1207D Pink</b>                            |
| <b>P1207E Neon Rose</b>       | <b>P1207F Nu Blue</b>                         |
| <b>P1207G Peach Glo</b>       | <b>P1207H Red</b>                             |
| <b>P1207J Salmon Capri</b>    | <b>P1207K Shades O'Pink</b>                   |
| <b>P1207L Violet</b>          | <b>P1207M White</b>                           |
| <b>P1207N Scarlet</b>         | <b>P1207P Sugar Plum</b>                      |
| <b>P1207Y Calypso Mix</b>     | <b>Neon Rose, Peach Glo and Salmon Capri</b>  |
| <b>P1207Z Razzleberry Mix</b> | <b>Nu Blue, Lilac Glo and Burgundy Chrome</b> |
| <b>P1207 Ramblin' Mix</b>     | <b>Formula blend of best colors</b>           |
- Prices for Ramblin' colors & mixes: 20 pellets \$6.90; 100 pellets \$21.65; 500 pellets \$78.00; 1,000 pellets & over \$144.03 per M.

### MULTIFLORA BEDDING & POT TYPES

#### CELEBRITY

As early as Carpets, but with a wider color range, they are also freer flowering during wet weather. Bushy 11 in/28 cm plant with 3 in/7.5 cm blooms. 11.5 weeks from seed to bloom. Pelleted seed only.

- |                             |  |
|-----------------------------|--|
| <b>P1168A Red</b>           | <b>P1168B White</b>                    |
| <b>P1168C Blue</b>          | <b>P1168D Salmon</b>                   |
| <b>P1168F Blue Ice</b>      | <b>P1168I Pink</b>                     |
| <b>P1168K Burgundy</b>      | <b>P1168L Lilac Morn</b>               |
| <b>P1168M Lilac</b>         | <b>P1168N Pink Morn</b>                |
| <b>P1168Q Neon</b>          | <b>P1167Q Burgundy Frost</b>           |
| <b>P1167R Rose</b>          | <b>P1168S Sky Blue</b>                 |
| <b>P1168T Red Morn</b>      | <b>P1168U Ice Mix</b>                  |
| <b>P1167U Rose Frost</b>    | <b>P1168V Morn Mix</b>                 |
| <b>P1167V Plum Ice</b>      | <b>P1168X Peach Ice</b>                |
| <b>P1167W Burgundy Star</b> | <b>P1167X Carmine</b>                  |
| <b>P1168Z Chiffon Morn</b>  | <b>P1167Z Yellow</b>                   |
| <b>P1168 Niagara Mix</b>    | <b>Blue, Lilac, Purple &amp; White</b> |
| <b>P1168R Celebrity Mix</b> | <b>Blend of best colors</b>            |
- Prices for Celebrity colors & mixes: 500 pellets \$4.85; 1,000 pellets & over \$7.75 per M.

#### TIDAL WAVE®

The most dense ground cover of all! 10 in/25 cm high plants spread to a diameter of 3 ft/90 cm at maturity. Masses of 2 in/5 cm blooms cover each plant. Pelleted seed only.

- |                      |   |
|----------------------|---|
| <b>P1199B Cherry</b> | <b>P1199C Hot Pink</b>  |
| <b>P1199D Purple</b> |   |
| <b>P1199A Silver</b> | <b>Silvery white to pale lavender with dark purple veins. AAS Winner.</b> |
- Tidal Wave prices : 20 pellets \$8.20; 100 pellets \$25.75; 500 pellets \$92.75; 1,000 pellets & over \$171.25 per M.

#### HURRAH™

Earliest multiflora series on the market, especially in low light or short day locations. Compact non-stretching (8-10 in/20-25 cm) mounded plant habit. Crop time 9.5-11 weeks. Pelleted seed only. Possible replacement for Primetime™.

- |                                |                              |
|--------------------------------|------------------------------|
| <b>P1979A Blue</b>             | <b>P1979B Blue Veined</b>    |
| <b>P1979D Lavender Tie-Dye</b> | <b>P1979E Pink</b>           |
| <b>P1979F Pink Chiffon</b>     | <b>P1979J Plum</b>           |
| <b>P1979L Red</b>              | <b>P1979M Red Star</b>       |
| <b>P1979N Rose</b>             | <b>P1979P Rose Star</b>      |
| <b>P1979Q Salmon</b>           | <b>P1979R Salmon Chiffon</b> |
| <b>P1979T Velvet</b>           | <b>P1979U White</b>          |
| <b>P1979 Hurrah Mix</b>        | <b>Blend of above colors</b> |
- Prices for Hurrah colors & mix: 500 pellets \$4.70; 1,000 pellets & over \$7.50 per M.

- P1201K Avalanche Grape** Unique color. 20 pellets \$7.35; 100 pellets \$23.05; 500 pellets \$88.45; 1,000 pellets & over \$166.24 per M.

### HYBRID MILLIFLORA PETUNIA



#### PICOBELLA™

(8-10 in/20-25 cm) Similar 1-1.25 in/2.5-3 cm blooms as Fantasy, but plants have more vigor, weather tolerance and spreading habit - making them more suitable for massed beds and large containers. No growth controls are needed. Crop time is between 8-10 weeks from seeding. Pelleted seed only.

- |                              |                            |
|------------------------------|----------------------------|
| <b>P1982A Blue</b>           | <b>P1982B Carmine</b>      |
| <b>P1982C Light Lavender</b> | <b>P1982D Rose</b>         |
| <b>P1982E White</b>          | <b>P1982F Red</b>          |
| <b>P1982G Salmon</b>         | <b>P1982H Rose Morn</b>    |
| <b>P1982J Rose Star</b>      | <b>P1982 Picobella Mix</b> |

Prices for Picobella pellets: Pkt. 100 pellets \$3.85; 500 pellets \$12.75; 1,000 pellets & over \$20.38 per M.



#### SHOCK WAVE™

Earliest to flower of all spreading types - 3 days earlier than Easy Waves. Lush plants are blanketed with masses of small 1.5 in/4 cm self cleaning blooms on mounded spreading foliage. Blooms recover from rain faster than any other petunia. Pelleted seed only.

- |                           |   |
|---------------------------|---|
| <b>P1212B Pink Shades</b> | <b>P1212C Pink Vein</b>                 |
| <b>P1212D Purple</b>      | <b>P1212E Rose</b>                      |
| <b>P1212F Denim</b>       | <b>P1212G Coconut</b>                   |
| <b>P1212H Coral Crush</b> | <b>P1212J Red</b>                       |
| <b>P1212K Deep Purple</b> |   |
| <b>P1212Y Spark Mix</b>   | <b>Coconut, Denim &amp; Pink Shades</b> |

Prices for Shock Wave colors & mix: 20 pellets \$8.20; 100 pellets \$25.75; 500 pellets \$92.75; 1,000 pellets & over \$171.25 per M.

**P1198 Baby Duck Yellow** Pkt. (20 seeds) \$8.60; 100 pellets \$25.75; 1,000 pellets & over \$171.25 per M.



**Growing Information**  
available at  
[www.StokeSeeds.com](http://www.StokeSeeds.com)





Dreams Rose Morn



EZ Rider Mix



Storm Salmon



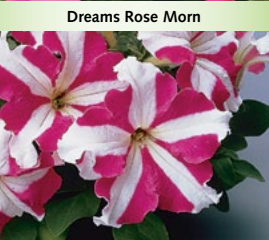
Fuseables - Flirtini



Fuseables - Blueberry Lime Jam



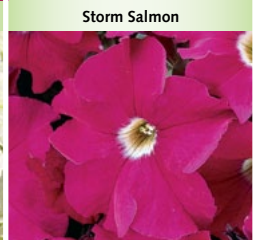
Fuseables - Strawberry Wine



Ultra Rose Star



Aladdin Yellow



Dreams Neon Rose

## HYBRID GRANDIFLORA PETUNIAS



Grandifloras are early flowering in paks. Flower size varies between series from 3.5 in/9 cm in the Frosts to over 4 in/10 cm with the Ultras. In most cases they will flower in paks 10-12 weeks from seeding in the North, 4 in/10 cm pots take 14 weeks and 15 weeks for 10 in/25 cm hanging baskets. **Pelleted Seed:** Press pelleted seed into saturated warm soil. Do not cover. Mist or lightly spray with water, keeping pellet moist until it breaks down. Germination takes a few days. Roots develop first. Reduce moisture, but keep damp, since roots need oxygen to develop. **M = 1,000 seeds or pellets.**

### ALADDIN™

Our earliest blooming grandiflora series. Allow 9.5-10 weeks from seed to bloom in paks, 12.5 weeks in pots. Blooms average 3.5-3.75 in/9-10 cm across and have a distinct wavy appearance. Great for pots, paks, hanging baskets or beds. **Note:** The Aladdin series will be replaced by EZ Rider, a similar series. We have excellent seed of the following Aladdin colors and mixes. If you need other separate colors use the EZ Rider series. Pelleted seed only.

**P1204D Cherry** **P1204Q Yellow**

**P1204W Burgundy Morn Mix**

**P1204 Aladdin Mix** Formula blend of 13 colors

Prices for Aladdin colors & mixes: 500 pellets \$6.25; 1,000 pellets & over \$8.81 per M.

### EZ RIDER

Suitable for cold growing conditions, genetics require 1/2 the PGR's to control stretching. Compact plants provide tight bloom widows so you can ship all colors together. Better base branching improves airflow to reduce Botrytis and lodging later in the season. Sow to transplant 6 weeks - 6 more weeks to flower. All use type! Pelleted Seed only.

**P1179C Deep Salmon** **P1179D Red** **P1179A Blue**

**P1179B Deep Pink** **P1179F White** **P1179E Rose**

**P1179M EZ Rider Mix** Formula blend of above colors

Prices for EZ Rider colors & mix: Pkt. (100 pellets) \$2.45; 500 pellets \$10.35; 1,000 pellets & over \$14.80 per M.

### SUPERCASCADE

Super sized 4.75 in/12 cm blooms, specially designed for containers or hanging baskets. The Supercascades are a vast improvement on the original Cascade type. Plants are 3 days earlier and are more suitable for hanging baskets or outdoor bedding. Pelleted seed only.

**P1252 Pink** **P1252A Red** **P1252B White**

**P1252J Lilac** **P1252K Blush** **P1252L Rose**

**P1252M Blue** **P1252N Salmon** **P1252P Burgundy**

**P1252D Cascade Blend** Formula blend of 10 supercascade colors plus Sugar Daddy and 2 bicolors.

Supercascade pellet prices: Pkt. (100 pellets) \$2.45; 500 pellets \$6.20; 1,000 pellets & over \$8.87 per M.

### ULTRA™

Ultra's base branching plant habit has excellent pot and pak appearance. Good weather tolerance. Uniform flowering time between colors is constantly being improved. 4 in/10 cm blooms. Pelleted seed only.

**P1171B Red**

**P1171D Burgundy**

**P1171G Rose**

**P1171J Red Star**

**P1171L Rose Star**

**P1171Q Violet**

**P1171T Lilac**

**P1171W Fresh White** Cool white

**P1171 Ultra Mix** Blend of above colors

Prices for Ultra colors & mixes: Pkt. (100 pellets) \$2.45; 500 pellets \$6.00; 1,000 pellets & over \$8.54 per M.

**P1171C Blue**

**P1171E Pink**

**P1171H Plum**

**P1171K Crimson Star**

**P1171M Blue Star**

**P1171S Sky Blue**

**P1171U Pastel Pink**

### DREAMS

DREAMS bloom about 10 weeks from seeding in paks or 13 weeks in pots or hanging baskets. Good cold-wet weather tolerance. Appleblossom and Red Picotee are AAS Winners. Pelleted seed only.

**P1169A Red**

**P1169C Midnight Blue**

**P1169E Pink**

**P1169K Burgundy**

**P1169N Rose**

**P1177A Burgundy Picotee**

**P1177C Red Picotee**

**P1177E Rose Morn**

**P1169 Dreams Mix** Formula blend of the best colors

**P1169P Dreams Patriot Mix** Red, white and blue

**P1169Q Dreams Waterfall Mix** Sky blue, midnight

blue and white

**P1169R Dreams Wild Rose Mix** Appleblossom,

neon rose and burgundy

Prices for Dreams colors & mixes: Pkt. (100 pellets) \$2.45;

500 pellets \$6.20; 1,000 pellets & over \$8.87 per M.

### STORM™

Blooms about 10 weeks from seeding for paks or 13 weeks for hanging baskets or pots. Similar cold-wet weather tolerance as Dreams. Large, 4 in/10 cm blooms flower continuously. Pelleted seed only.

**P1169G Lavender**

**P1169X Pink Morn**

**P1169W White**

**P1169Y Storm Evening Mix**

**P1169H Pink**

**P1169S Blue**

**P1169T Red**

**P1169Z Mix**

**P1169J Salmon**

**P1169U Violet**

**P1169I Blue**

**P1169M Purple**

**P1169N White**

**P1169O Pink**

**P1169P Red**

**P1169Q Blue**

**P1169R Purple**

**P1169S White**

**P1169T Pink**

**P1169U Red**

**P1169V Blue**

**P1169W Purple**

**P1169X White**

**P1169Y Pink**

**P1169Z Red**

**P1169A Blue**

**P1169B Purple**

**P1169C White**

**P1169D Pink**

**P1169E Red**

**P1169F Blue**

**P1169G Purple**

**P1169H White**

**P1169I Pink**

**P1169J Red**

**P1169K Blue**



Limbo GP Salmon



Limbo Deep Purple



A great idea tested by PanAm using either 2 different colors of Bacopa (page 60) or 2 colors of Coleus (page 64) or combining Petunias and Bacopa in the same precision multi-pellet to produce great container combos. Crop time 8-12 weeks (sow to finish). Multi-Species.

**NEW P1901J Healing Waters** Combines Shockwave Denim, Easy Wave Violet petunias and large-flowered blue Bacopa in the same precision multi-pellet.

**NEW P1901Q Strawberry Wine** Combines Easy Wave Shell Pink, Dreams Red, and Daddy Red petunias in the same precision multi-pellet.

Prices of Healing Waters & Strawberry Wine Fuseables: Pkt. (10 pellets) \$6.50; 100 pellets \$51.65; 1,000 pellets & over \$361.42 per M.

**NEW P1901L Blueberry Lime Jam** Combines Sophistica Lime Green and Dreams Midnight petunias in the same precision multi-pellet.

**NEW P1901M Flirtini** Combines Debonair Lime green and Carpet Rose petunias in the same precision multi-pellet.

**NEW P1901N Lime Coral** Combines Dreams Coral Morn and Sophistica Lime Bicolor petunias in the same precision multi-pellet.

**NEW P1901P Pink Dream** Combines Debonair Dusty Rose and Madness Pink petunias in the same precision multi-pellet.

Prices of the above four Fuseables: Pkt. (10 pellets) \$6.50; 100 pellets \$25.80; 1,000 pellets & over \$180.71 per M.

**P1901G Pleasantly Blue** Combines Dreams Midnight and Daddy Blue petunias in the same precision multi-pellet. Pkt. (10 pellets) \$6.50; 100 pellets \$25.80; 1,000 pellets & over \$180.71 per M.

**P1901F Burgundy Starlight** Combines Easy Wave Burgundy Star and Dreams Burgundy petunias in the same precision multi-pellet. Pkt. (10 pellets) \$6.50; 100 pellets \$43.45; 1,000 pellets & over \$361.42 per M.

**P1901H Cloud N' Sky** Combines Shock Wave Coconut petunia with Blutopia bacopa in the same precision multi-pellet.

**P1901C Blue Dawn** Combines Easy Wave Rosy Dawn Petunia and Blutopia Bacopa in the same precision multi-pellet.

**P1901D Silk N' Satin** Combines Shock Wave Pink Shades Petunia and Snowtopia Bacopa in the same precision multi-pellet.

Prices of Cloud N' Sky, Blue Dawn & Silk N' Satin Fuseables: Pkt. (10 pellets) \$6.50; 100 pellets \$51.65; 1,000 pellets and over \$361.42 per M.





Frost Series



Prism Sunshine



Sophistica Lime Bicolor



Blackberry & Lime Green



Daddy Blue



Frillytunia White



Red Pirouette



Purple Pirouette



Osteospermum - Asti Purple



Osteospermum - Akila Purple, White, Lavender Shades



## HYBRID GRANDIFLORA PETUNIAS



### FROST™

A combination of the Frost types, all of which have various solid colors ringed with a white outer halo. All are 3.5 in/9 cm blooms and have wavy edges. Raw seed only.

**1205 Blue Frost**

**1205B Velvet Frost**

**1205C Fire Frost**

**1205D Cherry Frost** A deeper rosy, cherry red with a white picotee.

Prices of Frost colors: 500 seeds \$5.75; 1,000 seeds & over \$8.05 per M.

### DADDY®

All veined types - rich pastel or clear, ruffled colors with contrasting darker veins of a similar color.

**1294 Sugar Orchid**

**1294A Pink**

**1294E Orchid AAS Winner**

**1294G Blue** Light blue

**1294B Peppermint** Silvery orchid

**1294D Strawberry** Light red

**1294M Daddy Mix** A blend of all of the above plus silvery white with darker overlaid veins.

Prices for Daddy colors & mix: Pkt. (100 seeds) \$2.90; 500 seeds \$5.35; 1,000 seeds & over \$7.49 per M.

### BEST VALUE MIX

**1249 Color Parade** (15 in/38 cm) A balanced mixture of a large number of colors, shades, bicolor, veined and picotee grandiflora types. Uniform plant habit. Probably the world's most colorful grandiflora mixture - it contains more than 20 different varieties. Color Parade is our most economical grandiflora F1 hybrid mix. Pkt. (100 seeds) \$2.20; 500 seeds \$5.15; 1,000 seeds & over \$7.38 per M.

### FRILLYTUNIA®

A new series of grandiflora single fringed types. Blooms are unique - heavily fringed and average 3.5 in/9.5 cm in diameter.

**1293A Rose**

**1293B Burgundy**

**1293C White**

Prices for Frillytunia colors: Pkt. (50 seeds) \$2.45; 500 seeds \$7.10; 1,000 seeds & over \$10.16 per M.

### SOPHISTICA®

A collection of unique color combinations with wavy edged grandiflora blooms on 10 in/25 cm plants. Pelleted seed only.

**P1181D Antique Shades**

**P1181E Blue Morn**

**P1181F Lime Bicolor**

**P1181H Lime Green**

**P1181G Blackberry** with red undertones.

Prices for Sophistica colors: Pkt. (10 seeds) \$4.40; 250 seeds \$36.25; 1,000 seeds & over \$99.82 per M.

**1101 Prism Sunshine** (6 in/15 cm) One of the best yellow grandiflora petunias. It is free flowering and holds its color during cooler early and late summer months. Plants average 6 in/15 cm in paks and 8 in/10 cm in the garden. Flowers average 4 in/10 cm in diameter. Blooms from seed in 75 days. Pkt. (100 seeds) \$2.70; 500 seeds \$4.25; 1,000 seeds & over \$5.97 per M.



## DOUBLE PETUNIAS



Grandiflora Double. Popular for containers, pots, formal bedding. Allow 11-13 weeks from seed to flower in paks; 14 weeks for pots. Mostly 12 in/30 cm plants, blooms fully double 3.5 in/9 cm. Double Cascades are at least 2-3 weeks earlier to flower. Purple Pirouette is an AAS Winner. Pellets only.

**P1162W Red Pirouette** Red/white edge

**P1162X Purple Pirouette** Violet Purple/white edge

**P1162Y Rose Pirouette** Rose/white edge

**P1162 Double Glorious Mix Blend**, 8 colors, 3 bicolors

Prices for above pellets: Pkt. (50 pellets) \$3.95; 500 pellets \$14.00; 1,000 pellets & over \$20.14 per M.

### DOUBLE CASCADE

**P1245A Cascade Pink**

**P1245B Cascade Burgundy**

**P1245D Cascade Orchid Mist**

**P1245F Cascade Blue**

**P1162N Valentine Red**

**P1245M Double Cascade Mix Blend** of above colors

Prices for Double Cascade pellets: Pkt. (50 pellets) \$3.95; 500 pellets \$14.00; 1,000 pellets & over \$20.14 per M.



## PHLOX DRUMMONDII



CULTURE: 15,000 seeds per oz/28 g. Sow thinly, in paks Feb.15th-April 1st for May sales. Germinate at 60-65°F/16-18°C for 10 days, 1/8 in/3 mm deep. Lightly cover seed and place flat in total darkness.

**1228 Globe Mix** (8 in/20 cm) Standard dwarf for bedding plant sales. Plain edged bloom - pastel and solid colors. Transplants easily. AAS Winner. Pkt. (225 seeds) \$2.40; 1/4 oz. \$8.15; oz. \$23.30.

**1231 Twinkle Mix** (8 in/20 cm) Dwarf star shaped bloom mix. Many solid colors and bicolors. Pkt. (225 seeds) \$2.25; 1/4 oz. \$5.65; oz. \$16.25.

**1220 Grandiflora Choice Finest Mix** (15 in/38 cm) Large flower head and taller stems for commercial cutting. A wide range of solid and pastel colors. Pkt. (225 seeds) \$2.85; 1/4 oz. \$8.50; oz. \$24.35.

### HYBRID PHLOX

#### 21ST CENTURY

(10 in/25 cm) Daylength neutral vigorous plants. Lateral branching plants have a much fuller appearance in massed beds, jumbo paks, 4 in/10 cm pots or gallon containers. Tolerates heat. Primed seed.

**R1229A Blue**

**R1229B Crimson**

**R1229C White**

**R1229M 21st Century Mix** Blue, crimson, rose, salmon, scarlet, white and magenta rose.

Prices for 21st Century colors & mix: 20 seeds \$3.85; 250 seeds \$23.20; 1,000 seeds & over \$67.17 per M.

**R1227A Grammy Pink & White** (6 in/15 cm) F1 hybrid. The most compact phlox drummondii available. Free flowering bi-color blooms produce color all summer long. Use in mixed containers, window boxes or for sunny garden areas. Very uniform potted plant. Reintroduced Fleuroselect Gold Medal Winner. 10-12 week crop. Primed Seed. Pkt. (20 seeds) \$5.25; 500 seeds \$41.25; 1,000 seeds & over \$69.79 per M.



## PHACELIA

CULTURE: 50,000 per oz/28 g. Sow April 15th - May 1st outdoors in rock gardens or use as a ground cover. Thin to 6 in/15 cm.

**1232 Campanularia** (9 in/23 cm) Blooms intensely gentian blue with white anthers. Plants delight in dry, sunny locations. Sow outdoors as soon as ground is fit to work. Ideal for rock gardens. Pkt. (100 seeds) \$2.20; 1/8 oz. \$4.25; 1/4 oz. \$6.05; oz. \$24.20.



## Ptilotus exaltatus



Drought and heat tolerant plant from Australia. Sow anytime from Jan. 15th to June 1st. Allow 12-16 weeks crop time from seed to bloom. CULTURE: Germinate at 75°F/24°C for 7 days. Cover seed lightly in slightly moist soil. Transplant 8 weeks later in clean soil. Grow at 70°F/21°C. Fertilize weekly at 100 ppm nitrogen.

**1921A Joey®** (15 in/38 cm) Large, feathery 4 in/10 cm bottlebrush flower spikes are silvery pink with neon pink tips. Use as accent in flower beds or in gallon containers. Pkt. (10 seeds) \$6.75; 100 seeds \$42.80; 500 seeds \$198.45; 1,000 seeds & over \$305.83 per M.



## OSTEOSPERMUM



### CAPE DAISY

Multi-branched plants maintain compact, bushy shape without pinching. Long flower cycles in cool weather continuing at night when below 75°F/24°C. Higher day temps reduce flowers until cooler. Drought tolerant - like well drained, dry, sandy soil, in full sun. CULTURE: Sow in greenhouse: April 1 for flowers in paks - 80 days later; Sept.15th for heavy flowering larger plants - 110 days later. Nick seeds and germ. at 70°F/21°C for 7-10 days. Grow plants at 65-70°F/18-21°C days; 40-50°F/7-10°C nights. Replace Passion Mix with either Asti or Akila mixes which have better colors. Hardy Annuals.

### ASTI™

(17 in/43 cm) The first "Osteo" from seed available in separate colors. No virus or tag issues! Great heat and cold tolerance. No vernalization needed. High percentage of usable transplants with excellent seed germ.

**1801A Lavender Shades**

**1801B White** AAS Winner

**1801C Purple**

**1801D Purple Bicolor**

**1801 Asti Mix**

Prices for Asti colors & mix: 20 seeds \$10.30; 100 seeds \$38.05; 500 seeds \$176.45; 1,000 seeds \$271.87.

### AKILA

(16 in/41 cm) One of the best seed grown Osteos for both plant habit and seed quality. Great for retail paks and pots - provides landscapers an economical choice for massed plantings and containers. This is the most compact seed series available. Plants branch without pinching. All colors flower within a 7-10 day window. No vernalization is needed - good drought tolerance with mature plants.

**1802A Lavender Shades**

**1802B Purple**

**1802C White**

**1802 Akila Mix**

**1802D White/Purple Eye**

Prices for Akila colors & mix: 20 seeds \$11.05; 100 seeds \$40.70; 500 seeds \$188.70; 1,000 seeds \$290.75.



Phlox - Grammy Pink & White



Phacelia - Campanularia

Stokes Seeds Inc.





Field of Dreams



Twisted Dart



Spiky Blue



Live Wire



Amazon Mist



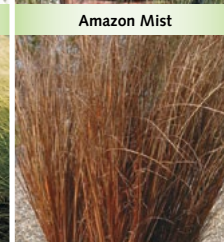
Zephyr



Blue Fescue



Pony Tails



Red Rooster



Blue Arrows



Happy Hour Mix



## ORNAMENTAL GRASSES



### DWARF ANNUAL GRASSES

CULTURE: Detailed growing instructions are printed on our packages.

**1715 Bunny Tail Grass** *Lagurus Ovatus* (15 in/38 cm) Dense woolly 2 in/5 cm heads, downy hairs. Sow April 20 for late July harvest. Pkt. (100 seeds) \$3.40; 1/8 oz. \$13.80; 1/4 oz. \$22.75; 1/2 oz. \$42.35.

**P1722E Amazon Mist™** *Carex* (10 in/25 cm) Multiseed pellets. Light green on medium green background. Cascading foliage with twisted tips on mounded plant habit. Likes full sun. Compare to Frosted Curls. Crop time 33 weeks spring; 19 weeks summer.

**P1722D Spiky Blue™** *Corynephorus* (8 in/20 cm) Uniform neat tufts of gray-green foliage. Sow March 15. Germinate 3 weeks at 65°F/18°C. Crop time 14 weeks.

Prices for Amazon Mist™ & Spiky Blue™: Pkt (10 pellets) \$5.50; 100 pellets \$14.95; 1,000 pellets and over \$106.26 per M.

**P1722A Red Rooster™** *Carex Sedge* (24 in/60 cm) Upright red bronze leaves, curled tips. For backgrounds. Sow Feb.10. Germinate for 3 weeks at 65°F/18°C. Crop time 17 weeks. Multiseed pellets.

**P1719 Live Wire** *Isolepis Sedge* (8 in/20 cm) Dense mound of green leaves; unique flowers. For 4-6 in/10-15 cm pots. Crop time 14 weeks.

**P1726 Zephyr** *Deschampsia elongata* (8 in/20 cm) Trailing fine textured green grass. Suits small mixed containers in semi or full shade outdoors. Also use as a house plant. Avoid full sun and hot dry conditions. Multi-seed pellets.

Prices for Red Rooster™, Live Wire & Zephyr: Pkt (10 pellets) \$5.50; 100 pellets \$14.95; 1,000 pellets & over \$106.26 per M.

### TALL ORNAMENTAL GRASSES

**1707 Purple Majesty** Ornamental Millet (4 ft/1.2 m) F1 hybrid. Deep purple foliage with 12 in/30 cm 'Cat tail' seed spikes. Use as cut flower. Crop time 10-14 weeks. Sow indoors Feb.15 - March 1.

**1707A Jester** Ornamental Millet (3.5 ft/1.07 m) F1 hybrid. Shorter chartreuse/burgundy version of Purple Majesty. Jester & Purple Majesty prices: 10 seeds \$5.50; 100 seeds \$26.95; 1,000 seeds & over \$186.56 per M.

**P1718 Wind Dancer** *Eragrostis* (36 in/90 cm) Love Grass. Plumes appear in July from a greenhouse sowing March 1st. Excellent for backgrounds. Hardy to zone 6. Multiseed pellets.

Pkt. (10 seeds) \$5.50; 100 seeds \$14.95; 1,000 seeds & over \$106.26 per M.

**1707B Field of Dreams** (60-72 in/151-182 cm) Novelty bicolor corn foliage with wide, medium green and white stripes running through the leaves. Plants should stay shorter at 36-48 in/90-120 cm in large containers. Remove any small cobs or suckers that may appear by August to prevent bird damage. Crop time 5-7 weeks. Pkt. (10 seeds) \$5.50; 100 seeds \$25.10; 250 seeds \$53.05; 1,000 seeds & over \$173.65 per M.

**1702 Fountain Grass** *Pennisetum Ruppelianum* (3-4 ft/90-122 cm) Long sprays may be obtained when sown early in February in the greenhouse and transplanted. 49,000 seeds per oz/28 g. Perennial.

Pkt. (25 seeds) \$2.20; 250 seeds \$5.25; 1,000 seeds & over \$10.34 per M.

### PERENNIAL GRASSES

**1716 Blue Fescue** *Festuca Ovina Glauca* (16 in/40 cm) Needle like, silver blue grass for edging. Trim twice a year. Approx. 42,000 seeds per oz/28 g. Pkt. (200 seeds) \$2.75; 1/4 oz. \$6.45; 1/2 oz. \$12.00; oz. \$18.40.

**P1717 Pony Tails™** *Stipa Tenuissima* (16 in/40 cm) Great for 4 in/10 cm pots, gallon containers or backgrounds. Plants grow to 3 ft/m in second year. Sow Jan.15-Feb.1st for May sales. Crop time 14 weeks from seed. Multiseed pellets. Pkt. (10 pellets) \$5.50; 100 pellets \$14.95; 1,000 pellets & over \$106.26 per M.

**P1720C Blue Dart** *Juncus* (16 in/40 cm) Upright blue foliage for sun or shade. Use in baskets, containers and beds - faster, more reliable than dracaena spikes. Works indoors or as a water plant. Tender perennial zone 5A. Multi-seed pellets. Pkt (10 pellets) \$5.50; 100 pellets \$14.95; 1,000 pellets & over \$106.26 per M.

**P1720A Blue Arrows** *Juncus* (36 in/90 cm) Tall up-right, stiff blue-green foliage, used like *Dracaena* - also as pond plant. Drought/heat tolerant. Tender perennial to zone 5. Crop time 5-6 weeks. Multi-seed pellets.

**P1720B Javelin** *Juncus* (48 in/1.2 m) Tall rugged plant grows in ponds, excess heat or drought. Green foliage maintains upright habit until fall when it turns a straw color. Likes full sun. Grow in gallon containers. Hardy to zone 6. Crop time 5-6 weeks. Multi-seed pellets.

Prices for each of the above two: Pkt (10 pellets) \$5.50; 100 pellets \$14.95; 1,000 pellets & over \$106.26 per M.

### TWISTED JUNCUS COLORGRASS®

A mix of Straight Blue Arrows and curly blue-green *Spiralis Juncus* (Inflexus). Heat and drought tolerant plants have same use and hardiness as Blue Arrows. Crop time 5-6 weeks. Both are tender perennials hardy to zone 5. Multi-seed pellets.

**P1720 Twisted Arrows** (36 in/90 cm)

**P1720D Twisted Dart** (14 in/36 cm) Dwarf version of Twisted Arrows

Prices for Twisted Juncus pellets: Pkt. (10 pellets) \$5.75; 100 pellets \$27.05; 1,000 pellets & over \$192.37 per M.

## PAMPAS GRASS

For Pampas Grass please see listing on page 96.



## POPPY (PAPAVER)

CULTURE: 260,000 per oz/28 g. Sow anytime from Apr.30th-June 30th. Press fine seed into the surface. Seed sown in Oct. will usually come up next spring.

**1213 Shirley Mix** (28 in/70 cm) The most attractive single poppy. Pink, red and salmon shading to white.

**1214 Double Shirley, Ryburgh Hybrids** (25 in/63 cm) Double blooms in salmon, pink, rose and scarlet.

Prices for Shirley & Double Shirley mixes: Pkt. (100 seeds) \$2.20; 1/4 oz. \$5.95; oz. \$9.95.



## PORTULACA



CULTURE: 280,000 seeds per oz/28 g. Sow Jan.15th - March 1st for May sales. Direct seed thinly into paks 1/4 oz/7 g sows 250 -7.5 x 5.5 in/19 x 14 cm paks. Press seed into soil, cover lightly, maintain soil temp. at 70°F/21°C days, 60°F/16°C nights for 3 or 4 days. Grow at 60°F/16°C. Sow outdoors in warm dry locations May 20th. Blooms 30 days from seed. Thin to 4 in/10 cm apart.

**1240A Sunnyside Mix** (5 in/12 cm) Best O/P with the widest range of separate colors and highest percentage of double blooms. Blend of coral, pink, gold, flame, orange, lemon, cherry, rose, yellow and white. Pkt. (500 seeds) \$2.20; 1/16 oz. \$12.95; 1/4 oz. \$45.25; 1/2 oz. \$84.20; oz. \$129.45.



## HYBRID PORTULACA

### SUNDIAL

(5 in/13 cm) A breakthrough - 2 weeks earlier than Calypso! Plants are more base branching than the F2 hybrid, giving protecting surface roots from intense sun. Supplied as multi-pellets.

**P1239B Pink P1239D Yellow P1239J Peppermint P1239E Scarlet P1239K Mango P1239G Orange P1239F White P1239C Fuchsia P1239N Tangerine P1239 Sundial Mix** A blend of all Sundial colors

Prices for Sundial colors & mix: Pkt. (50 pellets) \$4.05; 1,000 pellets & over \$35.84 per M.

### HAPPY HOUR SERIES

(8-10 in/20-25 cm) Bred to reduce daylength sensitivity, this series flowers under shorter daylength than other varieties currently on the market. Mounded plants are easier to ship than regular prostrate types. Fuller base branching plant habit, larger semi double blooms with vivid colors sell on sight in garden centers. Drought tolerant, excellent garden performance. Supplied as multi-pellets.

**P1242Z Tropical Mix** Deep Red, orange, banana  
**P1242C Deep Red P1242D Fuschia P1242E Lemon P1242G Peppermint P1242F Orange P1242H Rosita P1242A Banana** Pastel orange/red center  
**P1242B Coconut** Creamy white/yellow center

**P1242M Happy Hour Mix** Formula blend of colors  
Prices for Happy Hour colors & mixes: 100 pellets \$6.40; 500 pellets \$21.00; 1,000 pellets & over \$32.12 per M.

### HAPPY TRAILS SERIES



(9 in/23 cm) Spreads, cascades or trails, 14-18 in/35-45 cm from hanging baskets, containers or in landscape plantings. Unique cascading plant habit is superior to other trailing types. Plants bloom easily in 10 hour days - 2 weeks earlier than other types. Delay sowing until daylength reaches 10 hours. Use 288 cell trays, do not cover. Supplied as multi-pellets.

**P1243M Happy Trails Mix** Formula blend of 10 vivid colors  
**P1243Z Happy Trails Tropical Mix** Red, orange, yellow  
Prices for Happy Trails mixes: 100 pellets \$6.40; 500 pellets \$21.00; 1,000 pellets & over \$32.12 per M.



Purple Majesty



Portulaca - Happy Trails Mix

Quality Seed Since 1881



PRINTABLE ORDER FORM



Rudbeckia - Prairie Sun



Scabiosa - Blue Diamonds



Rudbeckia - Cherokee Sunset



Rudbeckia - Maya



Rudbeckia - Cherokee Sunset



Rudbeckia - Toto Series



Scabiosa Finest Mix



Scabiosa Finest Mix



Schizanthus - Star Parade Mix



Salpiglossis - Bolero Hybrids Mix



## RUDBECKIA (Gloriosa Daisy)



**CULTURE:** Seed size varies. Semi-dwarf types average 56,000 seeds per oz/28 g. Taller types average 40,000 seeds per oz/28 g. Use semi-dwarf types for medium height containers, bedding or wind tolerant cut flowers. Use tall types for backgrounds or commercial cut flowers. Sow indoors March 1st for green spring plant sales. Sow outdoors in May for fall cutting.

### TALL RUDBECKIA

**1258C Irish Eyes** (28 in/70 cm) Unique 4.5 in/11.5 cm single, pure gold daisy flowers with green raised centers. Heavy blooming. Pkt. (125 seeds) \$2.20; 1/4 oz. \$6.70; 1/2 oz. \$12.45; oz. \$19.15.

**1258G Prairie Sun** (3 ft/90 cm) Extra large 5 in/12 cm single, bicolor blooms are primrose yellow with a gold disc and unique light green "Irish Eyes", central cones. For May sales, grow in 5-6 in/12-15 cm pots. Crop time 15 weeks from seed to flower. AAS Winner. Pkt. (20 seeds) \$3.15; 250 seeds \$15.15; 1,000 seeds & over \$51.29 per M. Filmcoated seed.

**1256 Indian Summer** (3 ft/90 cm) Sturdy wind tolerant plants with huge 6-9 in/15-23 cm single and semi-double golden yellow blooms. AAS Winner. Pkt. (25 seeds) \$2.20; 250 seeds \$8.90; 1,000 seeds & over \$13.80 per M.

**1258 Gloriosa Daisy Mix** (3 ft/90 cm) Large single daisy-like blooms in yellow, mahogany, bronze, and gold, with many bicolored combinations. Pkt. (125 seeds) \$2.20; 1/4 oz. \$4.45; oz. \$11.20; 1/4 lb. \$44.80.



### SEMI DWARF RUDBECKIA



**1257Z Maya** (18-20 in/45-50 cm) First semi-dwarf, wind tolerant, fully double golden yellow rudbeckia for containers, borders or short stem cut flowers. Extra large 4-5 in/10-13 cm blooms. Pkt (50 seeds) \$3.15; 250 seeds \$14.45; 1,000 seeds & over \$43.27 per M. Filmcoated seed.

**1258E Sonora** (15 in/38 cm) Large golden yellow blooms, large black center. Great potted plant! Pkt. (25 seeds) \$2.35; 250 seeds \$10.25; 1,000 seeds & over \$27.12 per M. Filmcoated seed.

**1258F Cherokee Sunset** (16 in/40 cm) Double flowered mix in pastel shades of yellow, orange, bronze and brown. AAS Winner. Pkt. (50 seeds) \$3.15; 500 seeds \$14.95; 1,000 seeds & over \$21.12 per M.

**1258H Autumn Colors Mix** (20 in/50 cm) Formula blend of red, gold and bronze fall colors. Large, single 5-7 in/13-17 cm blooms, 14 week crop for 8 in/17 cm gallon pots. Pkt. (50 seeds) \$2.45; 250 seeds \$10.65; 1,000 seeds & over \$28.20 per M. Filmcoated seed.

**1258J Denver Daisy** (18 in/45 cm) Earliest flowering variety at this height. Best heat tolerance for parks, landscaping. Pkt. (50 seeds) \$2.90; 250 seeds \$10.65; 1,000 seeds & over \$28.20 per M. Filmcoated seed.

### TIGER EYE™

(24 in/60 cm) World's first F1 hybrid rudbeckia. Upright plants have improved tolerance to Powdery Mildew, a dense canopy of long lasting, large semi-double blooms and a nice base branching habit. Good PGR response. Crop time 14-17 weeks. Use 4 in/10 cm pots, larger containers or massed beds.

**1958A Tiger Eye Gold** Pkt. (25 seeds) \$3.85; 250 seeds \$34.90; 1,000 seeds & over \$111.45 per M.



### DWARF RUDBECKIA

**CULTURE:** Seed size varies greatly between types. Dwarf types average 70,000 seeds per oz/28 g. Sow indoors Feb. 1st for early May blooms in 4-6 in/20-25 cm pots. Grow plants at 70°F/21°C days and 50°F/10°C nights to prevent stretching. They like sandy soil that is slightly dry. Crop time 13-16 weeks.

### BECKY SERIES

(8 in/20 cm) Giant single 4.75 in/12 cm daisy shaped blooms are half the size of the dwarf plant. Excellent for 4-5 in/10-12 cm pots or annual borders. Do not over water!

**1258W Yellow**

**1258X Orange**

**1258Y Cinnamon Bicolor** Mahogany red/bright yellow tips  
**1258Z Mix**

Prices for Becky colors & mix: Pkt. (50 seeds) \$2.20; 1,000 seeds & over \$7.12 per M.

### TOTO®

(12-15 in/30-38 cm) 70,000 seeds per oz/28 g. Irresistible in 4-6 in/10-15 cm pots for May-June sales. Early flowering plants with well branched deep green foliage. 4 in/10 cm semi double blooms have dark brown center cones. Do not over water! Filmcoated seed.

**1258D Gold** Golden yellow with 5% bronze shades

**1258M Lemon**

**1258N Rustic** Mahogany/yellow

Pkt. (50 seeds) \$2.45; 1,000 seeds & over \$15.45 per M.



### SANVITALIA



**Creeping Zinnia** **CULTURE:** 50,000 per oz/28 g. Sow indoors February 15th or outdoors May 15th. Use as a ground cover for sunny or shady areas or hanging baskets in dry areas. Some tolerance to powdery mildew. Growers should apply B-9 every 7 days before sale. Plants flower from June till frost. Dwarf, spreading 4-12 in/10-30 cm plants. Transplant young seedlings!

**1281B Million Suns** (8 in/20 cm) Similar to vegetative varieties but easier to grow (no pinching required). Compact base branching plant habit with VERY intense flowering. Crop time for 4 in/10 cm pots is 9 weeks. Fleuroselect Winner. Pkt. (20 seeds) \$2.20; 250 seeds \$14.00; 1,000 seeds & over \$47.42 per M.

**1282 Mandarin Orange** (9 in/23 cm) Intense orange flowers with black centers. AAS Winner. Pkt. (100 seeds) \$2.90; 250 seeds \$3.95; 1,000 seeds & over \$9.73 per M.



Rudbeckia - Tiger Eye Gold



Rudbeckia - Denver Daisy



## SAFFLOWER



**Carthamus.** An excellent, easy to grow fresh cut or dried flower for commercial sales. Blooms are fluffy and ball shaped averaging 1.5 in/4 cm and resemble a flowering thistle, stems are strong. **CULTURE:** 700 seeds per oz/28 g. Sow indoors May 1st, outdoors June 1st. Germ. at 70°F/21°C for 10 days. Cut flowers 90 days from seed. Space plants at 4 in/10 cm for cuts.

**745 Lasting Orange** (32 in/80 cm) Golden orange with darker orange petal tips. Pkt. (20 seeds) \$2.20; 1/4 oz. \$3.40; oz. \$9.20.



## SALPIGLOSSIS

**PAINTED TONGUE** **CULTURE:** 125,000 per oz/28 g. Sow indoors March 1 for early summer blooms. Germinate in 70°F/21°C soil for 20 days in total darkness. Press fine seed into soil surface. Do not cover. Sow outdoors thinly in shady areas June 1. Space plants 12 in/30 cm apart.

**1280 Bolero Hybrids Mix** (25 in/64 cm) F2 hybrid. Trumpet shaped blooms with gold veined throats. Pkt. (400 seeds) \$2.20; 1/16 oz. \$2.95; 1/4 oz. \$6.45; oz. \$25.80; 1/4 lb. \$103.20.



## SCABIOSA

**Mourning Bride** **CULTURE:** 4,500 per oz/28 g. For July blooms, sow March 5th in 75°F/24°C soil for 12 days.

**1300 Scabiosa Finest Mix** (30 in/75 cm) An excellent blend of crimson, rose, pink, lavender and white. A great cut flower! Pkt. (60 seeds) \$2.40; 1/4 oz. \$7.55; 1/2 oz. \$12.50; oz. \$17.85; 1/4 lb. \$71.40; lb. \$285.60.

### DIAMONDS

(8 in/20 cm) Japonica Alpina. For first year blooming summer sales - as annual (9-13 weeks); as tender perennial spring cool crop (zones 5-7). A genetic dwarf - no growth regulator required. For perennials, sow in December; for annuals, sow in April. **CULTURE:** Press seed into soil surface and cover lightly. Germinate in 4 weeks at 75°F/24°C soil temp. An excellent tender perennial bedding plant.

**1308A Blue Diamonds**

**1308B Pink Diamonds**

Prices for Diamonds colors: Pkt. (20 seeds) \$2.35; 250 seeds \$13.20; 1,000 seeds & over \$44.73 per M.



## SCHIZANTHUS



**Butterfly Bush.** **CULTURE:** 50,000 per oz/28 g. Sow January 1st for 3 in/8 cm pot plants in May. Germinate in 60°F/16°C soil. Press fine seed into soil. Seeds sprout in about 15 days in total darkness. Allow plants to become pot-bound to induce early flowering during mid-winter months. Hit Parade makes a perfect pot plant without pinching. For mid winter 5 in/13 cm pots, sow August 20th for March blooms. Sow outside by May 1st for July cut flowers. Great pot plant!

**1315A Hit Parade Mix** (12 in/30 cm) A more vigorous, bushy strain for large containers and shady outdoor plantings. Formula mixture contains shades of white, pink, rose, red, lilac, violet, purple and many bicolors with graceful blotches and markings. Pkt. (25 seeds) \$2.45; 250 seeds \$9.30; 1,000 seeds & over \$24.62 per M.

**1315B Star Parade Mix** (8 in/20 cm) Very compact, ball shaped plants, covered with masses of brightly colored medium sized orchid-like blooms. The ultimate choice for 4 in/10 cm pots. Wide color range. Pkt. (25 seeds) \$2.45; 250 seeds \$9.30; 1,000 seeds & over \$24.62 per M.

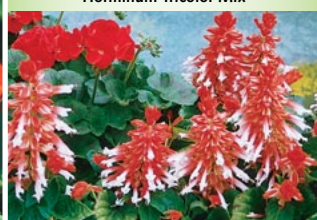




Dwarf Salvia - Mojave Red



Horminum Tricolor Mix



Salsa Scarlet Bicolor



Tall Salvia - Lighthouse Red



Evolution Violet



Salsa Mix



## SALVIA



**CULTURE:** oz/28 g approx. 6,400 seeds. For combination pots sow Feb.15th Feb.25th - Mar.15th for May-June sales. Start seed in Jiffy Mix, water well with 70°F/21°C water. Mark out rows 1/8 in/3 mm deep, sow seed at 6 seeds per in/25 mm. Since salvia seed is sensitive to light, (needs light to germinate) it must be left uncovered for 24-48 hours to satisfy or trigger light requirements. Once this has been accomplished, press the seed lightly into the soil surface, do not cover the seed - it still needs further light to germinate. Maintain a soil temp. of 70-75°F/ 21-22°C for 10-14 days until germination occurs. **TRANSPLANT** 15-20 days later, using the leaf (not the stem) when handling. Transplant young plants at the same depth as they were, as seedlings. Salvia is very sensitive to high (over pH of 5) soluble salt levels. Sometimes it is a good idea to soak the transplanting soil well, before using, to reduce possible salt levels. Salvia is also very sensitive to methyl bromide (gas soil sterilizer). Do not use it with this species! **GROW** plants at 55-60°F/13-16°C shading young transplants from direct sunlight, until they become established. **DIRECT SEED** sow outdoors May 30th. Transplant in 10-15 days - dwarf types 8 in/20 cm apart, tall types 16 in/41 cm apart. Plants respond to several light feedings of liquid fertilizer to keep the leaves dark green and the spikes blood red. Do not over fertilize - they burn quite easily. Combines very well with Silverdust (Dusty Miller). Maestro should flower approx. 10 weeks from sowing. Taller types like Bonfire are sold in paks without bloom. **CUTTING:** Regular strains of salvia make poor cut flowers. Only the farinacea and horminum types are grown for commercial cut flowers.

### EARLY EXTRA DWARF

**1290A Maestro** (8 in/20 cm) The earliest dwarf salvia available with dark green foliage. Good extended shelf life at chain stores in late spring. Nice 4 in/10 cm dark red spikes. Use in 4 in/10 cm pots. Pkt. (50 seeds) \$2.90; 1/16 oz. \$10.10; 1/8 oz. \$17.00; 1/4 oz. \$25.15; oz. \$100.60.

**1268 St. John's Fire** (12 in/30 cm) Popular early salvia for pak sales. Heavy flowering. Our special strain. Pkt. (50 seeds) \$2.20; 1/16 oz. \$4.85; 1/8 oz. \$8.20; 1/4 oz. \$12.10; oz. \$48.40.

**1285C Red Vista** (13 in/33 cm) Blooms a week earlier than Carabinieri. Sturdy plants have dark green foliage and provide plenty of thick, dark red 7 in/18 cm spikes. Pkt. (50 seeds) \$2.90; 500 seeds \$8.70; 1,000 seeds & over \$13.32 per M.

**1291B Mojave Red** (14 in/35 cm) Daylength neutral compact plant with unique branching habit. Deep green leaves, blood red spikes. Crop time 9 weeks. Pkt. (50 seeds) \$2.70; 1/16 oz. \$10.10; 1/8 oz. \$17.00; 1/4 oz. \$25.15; 1/2 oz. \$50.30.



Extra Dwarf Salvia - Maestro

### SALSA™

(15 in/38 cm) Daylength neutral (remains compact in summer). Bushy plants flower 8-10 weeks in paks. Excellent in 4 in/10 cm pots. Prolific bloomer! Use B-9 and high light intensity to stay extra dwarf.

**1295A Scarlet**  
**1295D White**  
**1295G Purple**

**1295C Burgundy**  
**1295F Scarlet Bicolor**  
**1295 Mix** 8 colors

Prices for Salsa colors & mix: Pkt. (50 seeds) \$2.90; 250 seeds \$5.95; 500 seeds \$8.40; 1,000 seeds & over \$12.86 per M.

### SIZZLER

Wide choice of vivid and pastel colors on upright 16 in/40 cm plants. Daylength neutral like Salsas. 9-11 weeks in paks. Likes warm weather.

**1282S Purple**

**1282Z Red**

**1282W Sizzler Mix** Blend of 13 colors and bicolors

Prices for Sizzler colors & mix: Pkt. (25 seeds) \$2.20; 1/32 oz. \$5.40; 1/16 oz. \$9.85; 1/8 oz. \$17.55; 1/4 oz. \$27.05.

### TALL SALVIA

**1266 Bonfire** (24 in/60 cm) A select strain of Jersey Bonfire, which is slightly later and taller than Extra Early Bonfire. The perfect tall border for verandas and fences. Very free flowering. Plants mature in August. Pkt. (50 seeds) \$2.20; 1/16 oz. \$4.00; 1/8 oz. \$6.75; 1/4 oz. \$10.00; 1/2 oz. \$20.00.

**1290C Lighthouse Red** (20 in/50 cm) Bushy dark green plants are earlier flowering, with more dense scarlet spikes and shorter plants than Bonfire. Croptime 8 weeks. Pkt. (50 seeds) \$2.90; 500 seeds \$9.80; 1,000 seeds & over \$15.07 per M.

**1290D Lighthouse Purple** (20 in/50 cm) Bushy dark purple plants are taller than Salsa Purple. Use for tall borders in front of fences. 250 seeds \$5.10; 500 seeds \$9.80; 1,000 seeds & over \$15.07 per M.



Tall Salvia - Bonfire



Farinacea Salvia - Strata



## FARINACEA SALVIA

An excellent cut flower, withstands hot weather better than regular salvia. Approx. 35,000 seeds per oz.

**1291S Saga Blue** (10 in/25 cm) Intense deep blue color. Dwarf bushy plant with strong heat tolerance. Crop time 10-12 weeks. Pkt. (50 seeds) \$2.90; 250 seeds \$6.20; 1,000 seeds & over \$13.32 per M.

**1297 Mini Victoria** (12 in/30 cm) An improved Rhea, dwarf strain of Victoria. For borders and containers. Pkt. (25 seeds) \$2.20; 1/32 oz. \$5.75; 1/16 oz. \$10.50; 1/8 oz. \$18.70; 1/4 oz. \$28.80.

**1283 Victoria** (16 in/40 cm) Deep violet blue slim spikes, bushy medium green plant. Never goes out of flower! Hardy annual for massed beds or cutting. Pkt. (25 seeds) \$2.20; 1/32 oz. \$5.25; 1/16 oz. \$9.45; 1/8 oz. \$16.95; 1/4 oz. \$26.10; oz. \$104.40. 25,000 seeds per oz.

**1291A Evolution™ Violet** (18 in/45 cm) Extra long, very dark violet blue flower spikes, deep green contrasting foliage and free flowering bushy plants make this vivid blue annual an excellent choice for large containers, backgrounds, mass plantings - an outstanding cut flower. Plants are frost and heat tolerant. AAS and Fleuroselect Winner.

**1291C Evolution™ White** (18 in/45 cm) Silvery-white companion to the original. Some extra long well branched spikes. Ideal container or background plant.

Prices of each of the above two: Pkt. (25 seeds) \$2.45; 500 seeds \$7.30; 1,000 seeds & over \$11.18 per M.

**1284A Strata** (14 in/35 cm) Bicolor blue and white spikes. Each blue florette is highlighted by a white calyx. Novel cut flower. AAS and Fleuroselect Winner. Pkt. (25 seeds) \$2.20; 1/32 oz. \$7.00; 1/16 oz. \$12.75; 1/8 oz. \$22.65.



## HORMINUM SALVIA



9,500 seeds per oz/28 g. Used as a late summer/fall cut flower for fresh or dried arrangements of intense pastel colors.

**1274A Horminum Tricolor Mix** (27 in/70 cm) Formula blend of blue, pink and cream shades. Pkt. (100 seeds) \$1.90; 1/16 oz. \$2.80; 1/8 oz. \$4.70; 1/4 oz. \$7.00; oz. \$28.00.

## COCCINEA SALVIA



### SUMMER JEWEL

(20 in/51 cm) Unique early flowering spikes with .5 in/1.2 cm blooms. Loves full sun and is a favourite of hummingbirds for the sweet pollen and gold finches for the seed pods in the fall. Plants are base branching, rain and wind tolerant. Plants bloom 50 days from seeding. Two AAS Winning colors!

**1273C Red**

**1273D Pink**

Prices for Summer Jewel colors: Pkt. (25 seeds) \$2.45; 250 seeds \$11.00; 1,000 seeds & over \$14.91 per M.



Summer Jewel Red



Evolution White



Summer Jewel





Candy Showers Rose



Candy Showers Series



Rocket Series



Twinny Peach



Arrow Mix



Linaria - Fantasy Series



## SNAPDRAGON - DWARF AND SEMI DWARF TYPES



**CULTURE:** 200,000 seeds per oz/28 g. Freeze seed for 48 hrs. before sowing. Sow Feb.1st-Mar.15th for early May sales. Use Jiffy Mix or sterilized sandy loam. Firm and water thoroughly before seeding. Press seed into surface 1/8 in/3 mm (do not cover). Cover with plastic. Germinate at 70°F/21°C soil temp. 7 days. Shade or vent seed flats in direct sunlight to keep seed from being destroyed by excessive heat under plastic. Keep soil moist at all times and lower night temperatures to 60°F/16°C for best results. As seedlings appear, grow at 50°F/10°C. Transplant 6 weeks after seeding at the same depth as they were as seedlings. Shade fresh transplants with cheese cloth from direct sun until well established. Keep well watered with tempered 60°F/16°C water. Pinch back maturing plants to delay flowering until late July. **DIRECT SEEDING:** Sow outside in early May - transplant dwarf types 6 in/15 cm. apart, tall types 8 in/20 cm apart. Cut flowers last about 3-4 days or longer if a bit of bleach is added to the water. Germination varies according to color. **M = 1,000 Seeds or Pellets.**

### FLORAL SHOWERS

(5 in/12 cm) Extra dwarf, F1 hybrid series for small 4 in/10 cm pots and early flowering, formal bedding plant work at estates or public parks. Plants are vigorous, base branching and flower at the same time as Pansies. Retains compact mound-like habit during extreme heat.

- |                                     |                       |
|-------------------------------------|-----------------------|
| <b>452L Apricot Bicolor</b> /white  | <b>452B Crimson</b>   |
| <b>452C Deep Bronze</b>             | <b>452P Fuchsia</b>   |
| <b>452K Lavender Bicolor</b> /white | <b>452J Lilac</b>     |
| <b>452Q Red and Yellow Bicolor</b>  | <b>452D Purple</b>    |
| <b>452N Wine Bicolor</b> /white     | <b>452F Rose Pink</b> |
| <b>452M Bicolor Mix</b> 4 bicolors  | <b>452G White</b>     |
| <b>452 Floral Showers Mix</b>       | <b>452H Yellow</b>    |

Prices for Floral Showers colors & mixes: Pkt. (50 seeds) \$2.20; 500 seeds \$4.70; 1,000 seeds & over \$6.94 per M.

### MONTEGO™

(8 in/20 cm) F1 hybrid. Uniform blooming colors that flower about 5-7 days earlier than other dwarf snaps. Base branching, sturdy plants provide excellent garden performance during hot weather conditions.

- |   |                    |
|---|--------------------|
| <b>454A White</b>                                   | <b>454B Rose</b>   |
| <b>454C Pink</b>                                    | <b>454D Yellow</b> |
| <b>454G Purple</b>                                  | <b>454N Red</b>    |
| <b>454P Scarlet</b>                                 | <b>454Q Violet</b> |
| <b>454K Orange Bicolor</b> /yellow                  |                    |
| <b>454L Burgundy Bicolor</b> /white throat          |                    |
| <b>454R Sunset Tricolor</b> Orange to yellow blend  |                    |
| <b>454 Montego Mix</b> Formula blend of best colors |                    |

Prices for Montego colors & mixes: Pkt. (50 seeds) \$2.20; 500 seeds \$6.90; 1,000 seeds & over \$10.13 per M.

### DWARF TRAILING TYPES



#### CANDY SHOWERS



(8 in/20 cm) F1 hybrid. First ever dwarf, trailing snapdragon from seed. Ideal for hanging baskets and mixed containers with pansies. Strong stems ship easily and hold up in the garden. Sow at the same time as pansies. Pelleted Seed only.

- |                          |                     |
|--------------------------|---------------------|
| <b>P461A Deep Purple</b> | <b>P461B Orange</b> |
| <b>P461C Red</b>         | <b>P461D Rose</b>   |
| <b>P461E Yellow</b>      | <b>P461 Mix</b>     |

Prices for Candy Showers colors: Pkt. (25 pellets) \$3.75; 250 pellets \$42.15; 1,000 pellets & over \$124.16 per M.



**Volume Purchase Discounts**  
Please see page 1 for details.

### TWINNY



(12 in/ 30 cm) F1 hybrid semi-double azalea flowered dwarf snap. Plants are tolerant to hot or wet weather conditions. Recommended for 4-5 in/10-12 cm pots and large containers. Plants are base branching and provide long shelf life during sales periods. Exceptional garden performance. Twinny Peach is an AAS Winner. Crop time 12 weeks.

- |                           |                          |
|---------------------------|--------------------------|
| <b>449B Peach</b>         | <b>449C White</b>        |
| <b>449D Yellow Shades</b> | <b>449E Appleblossom</b> |
| <b>449F Rose</b>          | <b>449G Violet</b>       |
| <b>449H Bronze Shades</b> | <b>449 Twinny Mix</b>    |

Prices for Twinny colors & mix: Pkt. (25 seeds) \$2.45; 500 seeds \$11.75; 1,000 seeds & over \$17.28 per M.

### WIND TOLERANT SEMI DWARF SNAPS



#### SOLSTICE



(16-20 in/41-51 cm) F1 hybrid. Best knee-high, cool loving, wind tolerant series for backyard backgrounds or cut flowers. Performs best early spring in short daylengths in cool weather; like pansies. Plant at the same time as pansies. Occasional deadheading will promote additional flowering. Bushy plants spread 10-14 in/25-36 cm wide. Likes semi shade or 6 hours of full sun. Use for gallon containers. Sow in March for spring sales only.

- |                             |                      |
|-----------------------------|----------------------|
| <b>458A Burgundy</b>        | <b>458B Lavender</b> |
| <b>458C Orange Tricolor</b> | <b>458D Pink</b>     |
| <b>458E Purple</b>          | <b>458F Red</b>      |
| <b>458G Rose</b>            | <b>458H White</b>    |
| <b>458J Yellow</b>          | <b>458 Mix</b>       |

Prices for Solstice colors & mix: Pkt. (50 seeds) \$3.75; 250 seeds \$17.95; 1,000 seeds & over \$52.89 per M.

**450 Outdoor Finest Mix** (20 in/50 cm) F2 hybrid formula blend provides an economical mix for bedding plant growers. Bushy, wind tolerant. Pkt. (300 seeds) \$2.20; 1/4 oz. \$5.20; 1/2 oz. \$8.35; oz. \$15.00.



Solstice Mix

### TALL HYBRID SNAPDRAGON

#### ARROW™



(24 in/60 cm) F1 hybrid. Very fragrant, intermediate height, wind and rain tolerant snap for garden backgrounds or cut flower production. Plants are earlier flowering than the Rockets and can be harvested spring or fall. Crop time 16 weeks for cut flowers or 10 weeks for 6 in/15 cm pots.

- |                                |                     |
|--------------------------------|---------------------|
| <b>463A Deep Red</b>           | <b>463B Magenta</b> |
| <b>463C Orange</b>             | <b>463D Pink</b>    |
| <b>463E Red/Yellow Bicolor</b> | <b>463F White</b>   |
| <b>463G Yellow</b>             |                     |

**463 Arrow Mix** Formula blend of above colors

Prices for Arrow colors & mix: Pkt. (50 seeds) \$2.20; 500 seeds \$6.85; 1,000 seeds & over \$10.06 per M.

#### ROCKET

(36 in/90 cm) Long, strong spikes of beautifully colored blooms. Plants average 36 in/91 cm in height and should be staked in windy areas for cut flower production, or bedding plant use. Larger flower spikes than other hybrids. A summer flowering snap.

- |                         |                         |
|-------------------------|-------------------------|
| <b>428A Red</b>         | <b>428B Rose</b>        |
| <b>428E Yellow/gold</b> | <b>428F White</b>       |
| <b>428G Pink</b>        | <b>428 Rocket Blend</b> |

Prices for Rocket colors & mix: Pkt. (50 seeds) \$2.20; 500 seeds \$4.30; 1,000 seeds & over \$6.36 per M.

### TALL DOUBLE AZALEA FLOWERED

**441 Madame Butterfly Mix** (28 in/70 cm) Double azalea flowered snap. Color range: Scarlet, crimson, rosy-bronze, yellow, pink, light golden bronze, red-magenta. 8 x 2.5 in/20 x 6 cm flower stalks support about 14 open-faced 1.5 in/4 cm double butterfly blooms each. Pkt. (50 seeds) \$3.25; 500 seeds \$10.25; 1,000 seeds & over \$15.08 per M.



### LINARIA (Baby Snap)



Novel dwarf series bred for compact habit. This cool season crop does not like extreme summer heat. Extend flowering period in Northeast by transplanting outdoors in moist semi-shaded beds or containers. More delicate stems than snapdragons. Plant is weather tolerant and requires little maintenance. Heavy rain may flatten stems, but rapid side growth fills gaps quickly. Effective in massed border plantings, window boxes. Transplant outdoors in early May. **CULTURE:** Sow in greenhouse Feb.15th - March 1st for early May sales. Crop time 50-60 days. Press seed into surface (do not cover). Cover seedling tray. Germinate at 65°F/18°C for 7-14 days. Keep flats semi-shaded until seedlings are ready to transplant. Grow seedlings and plants cool 60-70°F/16-21°C days, 45-50°F/7-10°C nights. Transplant into 4-6 in/10-15 cm pots, large containers or outdoors in massed beds.

#### FANTASY

25% more tiny, 5/8 in/1.5 cm snapdragon-like blooms per stem than regular Linarias. Outstanding bedding plant for massed formal beds in parks and public gardens in cool semi-shaded areas during spring and fall. A delicate, fragile cut flower. Pelleted seed.

- |                           |                     |
|---------------------------|---------------------|
| <b>P972B Blue</b>         | <b>P972C Yellow</b> |
| <b>P972E Magenta Rose</b> |                     |

**P972 Fantasy Mix** Blend of several of the best colors

Prices for Fantasy colors & mix: Pkt. (25 pellets) \$2.65; 500 pellets \$19.55; 1,000 pellets & over \$29.89 per M.





Stocks - Dwarf Ten Weeks Mix



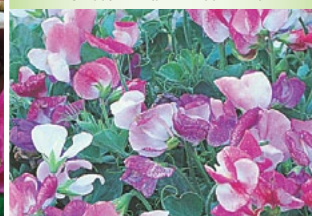
Sweet Pea - Streamers Mix



Sweet Pea - Mammoth Series Mix



Sweet William - Wee Willie



Dwarf Sweet Pea - Cupid Pink



Silene - Royal Elektra



## SILENE (Catchfly)

A beautiful hardy annual upright cut flower from the Ukraine. Plants have huge flower heads similar in shape to heliotrope. CULTURE: 258,000 per oz/28 g. Germinate at 60-65°F/16-18°C for 10 days. Sow outdoors just before last spring frost, when iris are in bloom. Do not cover seed.

**1259 Royal Elektra** (16 in/40 cm) Carmine pink. Pkt. (130 seeds) \$1.90; 1/128 oz. \$3.40; 1/64 oz. \$5.05.

**1259D Starry Dreams** (4 in/10 cm) Pure white star shaped blooms on dwarf plants for pots. Crop time 9-10 weeks. Tender perennial zones 5-8. Pkt. (20 seeds) \$2.85; 250 seeds \$8.35; 1,000 seeds & over \$25.17 per M.



## STATICE



### LIMONIUM SINUATUM

CULTURE: 11,000 seeds per oz/28 g. Seed has been specially cleaned to remove it from clumps. This French strain is superior to U.S. grown seed. Sow Feb.-March for Aug.-Oct. cut flower material. For bedding plant sales allow 10-12 weeks from seed to sale. Hardy annual in zone 6.

#### PACIFIC

**1321 American Beauty** Rich deep rose

**1325 Gold Coast** Bonduelli type, yellow

**1320 Heavenly Blue** Mid blue

**1322 Iceberg** White

**1326 Market Rose** Carmine

**1324 Midnight Blue**

**1323 Sinuata Pacific Strain Mix** (30 in/75 cm)

Standard tall strain for dried or cut flower use.

Prices for Pacific colors & mix: Pkt. (120 seeds) \$2.35; 1/8 oz. \$9.55; 1/4 oz. \$17.80; 1/2 oz. \$30.90.

**1329 Pastel Shades** (30 in/75 cm) Developed by Takii from tissue cultures. This is an elite blend of light blue-lavender, rose pink, soft pink and white. Pkt. (50 seeds) \$2.95; 500 seeds \$10.70; 1,000 seeds & over \$16.19 per M.



## STATICE SUWOROWII



CULTURE is the same as Limonium Sinuatum statice above. 224,000 seeds per oz/28 g. Cleaned seed.

**1355B Suworowii** (30 in/75 cm) Bright pencil-thin rose flower spikes twist above the plants. Pkt. (50 seeds) \$2.15; 250 seeds \$4.10; 1,000 seeds & over \$7.02 per M.



Statice - Suworowii



Stocks - Vintage Series



Statice - Sinuata Pacific Strain Mix



## STOCKS



CULTURE: 18,500 seeds per oz. Sow indoors Mar.15th at 70°F/21°C soil temp. for 7-10 days. Press seeds into surface but do not cover with soil. Keep moist. Select only light green seedlings for transplants. Darker seedlings are single flowered. Grow plants cool at 50-55°F/10-13°C. In beds, plants retain height of 12 in/30 cm in long daylight. Allow 12-16 weeks from seed to sale. COLUMN STOCKS can be started and grown from July 15th to Feb.15th (for flowers Jan. 10th); late May during shorter days. Sowings after this period will not flower.

**1343 Dwarf Ten Weeks Mix** (12 in/30 cm) Highly recommended for bedding plant sales. Scented mixture of white, pink, red, light and dark blue. Pkt. (100 seeds) \$2.15; 1/4 oz. \$5.05; 1/2 oz. \$7.45; oz. \$12.65.

#### VINTAGE

(10 in/25 cm) Excellent base branching compact plants are free flowering with 60% double fragrant spikes. Use for window boxes, containers or bedding.

**1337B White**

**1337F Burgundy**

**1337 Mix**

**1337D Lavender**

**1337H Red**

**1337M Antique Mix**

Prices for Vintage colors & mix: Pkt. (50 seeds) \$2.15; 1/16 oz. \$16.80; 1/4 oz. \$55.50; 1/2 oz. \$102.60.



## DWARF SWEET WILLIAM



CULTURE: 26,000 per oz/28 g. For flowering paks in May - sow Feb. 15th in the greenhouse at 70°F/21°C for 5 days. Sow direct for best results. Grow cool at 50°F/10°C. Sow outdoors May 1st, as a ground cover or transplant into rock gardens.

**872 Wee Willie** (8 in/20 cm) Standard miniature, blooms in paks. Good for pots. Crop time 6-8 weeks. Pkt. (30 seeds) \$1.90; 1/16 oz. \$2.30; 1/4 oz. \$4.20; oz. \$11.60.



### DIANTHUS BARBATUS

Commonly referred to as Sweet William, these varieties are listed in the perennial section on **Page 97**.



## TALL SWEET PEAS



Sweet Peas are available in several types. Heat tolerant strains will lengthen the spring season into the hotter weather. Cuthbertson-Floribundas and Summer Flowering Spencers are valuable for cutting. CULTURE: 250-300 seeds per oz/28 g. Sow indoors March 15th. Germinate 1/2 in/13 mm deep; cover seed. Keep dark in 55°F/13°C soil for 14 days. Transplant outside May 10th. Sow outdoors April 1st using Captan for seed protection in hills 8 in/20 cm apart. Sweet peas prefer heavy rich soil, not sandy land. Water well during dry spells. Plan harvests for early summer or fall.

#### ROYAL FAMILY SERIES

Improved Cuthbertson. Heat tolerant strain with 6-7 large blooms per stem has extra strong stems and average plant height of 6 ft/2 m. Can be used for spring greenhouse crops or commercial field cut flowers, if staked.

**1680A Maroon**

**1680E Lavender Rose**

**1680 Mix** A beautiful formula mix of 9 colors

Prices for Royal Family colors & mix: Pkt. (80 seeds) \$2.15; oz. \$5.15; 1/4 lb. \$12.25; 1/2 lb. \$24.50; lb. & over \$49.00 per lb.

**1618 Mammoth Series Mix** One of our best extra large flowered types for commercial cuts. Long stems, prize winning colors: deep rose, salmon, cream, pink, scarlet, white, mid blue, crimson. Pkt. (80 seeds) \$2.15; oz. \$5.15; 1/4 lb. \$12.25; 1/2 lb. \$24.50; lb. & over \$49.00 per lb.

**1624 Summer Flowering Finest Mix** An elite Summer Spencer strain, 5 to 6 large fragrant flowers per stem. Salmon, ice blue, cerise, pink, rose, scarlet and white. Pkt. (80 seeds) \$2.15; oz. \$5.15; 1/4 lb. \$12.25; 1/2 lb. \$24.50.

**1627 Streamers Mix** Novelty white bicolor mix of scarlet, purple, pink, orange, lavender, chocolate and blue. All are striped with white flakes on each bloom. A unique fragrant cut flower! Pkt. (80 seeds) \$2.15; oz. \$14.20; 1/4 lb. \$33.75; lb. & over \$135.00 per lb.

**1628 Incense Mix** Best color selection of the most fragrant cutting varieties. Pkt. (80 seeds) \$2.15; oz. \$16.65; 1/4 lb. \$39.65; lb. & over \$158.60 per lb.



## DWARF SWEET PEAS



Sow indoors in Jiffy Strips March 15th. Germinate 1/2 in/13 mm deep and cover seed. Keep dark in 55°F/13°C soil. (higher temperatures will prevent sprouting) for 14 days. Transplant outside May 10th. Great for containers in short season areas.

**1626 Cupid Pink** Rose pink with white picotee edge. Beautiful perfumed 1 in/2.5 cm blooms on dwarf bushy plants are free flowering. Ideal for tubs or hanging baskets. Pkt. (30 seeds) \$2.15; oz. \$8.50; 1/4 lb. \$24.25; lb. & over \$97.00.

**1625A Explorer Mix** (14 in/36 cm) A non-climbing Sweet Pea with no tendrils. Florets are closely spaced on the stems. Plants are very free flowering and the extra leaves help to conserve soil moisture and shade tender roots during early summer. Blend of 8 colors. Pkt. (35 seeds) \$2.15; oz. \$14.55; 1/4 lb. \$35.05; lb. & over \$140.20 per lb.

**1645 Bijou Mix** (12 in/30 cm) Unique bush type Sweet Pea for window boxes, beds or borders. Extremely early flowering plants smothered in bright, ruffled blooms. A rainbow of red, salmon, blue, rose, lilac and pink. Stems are just long enough for cutting. Pkt. \$2.15; oz. \$6.05; 1/4 lb. \$14.55; 1/2 lb. \$29.10.





Ursinia - Anethoides



Vinca - Mediterranean Red XP



Thunbergia - Alata Susie Mix



Tithonia - Goldfinger



Vinca - Pacifica Mix XP



## TALINUM



CULTURE: Cover seed, germinate at 74°F/24°C for 4 days. Grow seedlings at 70°F/21°C days; 64°F/18°C nights. Crop time 10 weeks.

**1750 Limón** (28 in/70 cm) Fantastic Foliage. Likes full sun. Mounded lime green leaves spread 44 in/1m, upright seed stalks have tiny pink blooms. Drought and heat tolerant. 250 seeds \$55.30; 1,000 seeds & over \$157.03 per M.



## THUNBERGIA



CULTURE: 1,000 seeds per oz/28 g. Sow April 1st into Jiffy strips at 2 seeds per pot. Likes high 75-80°F/24-27°C soil temp. for 15-20 days. Sow outside June 1st. Order fresh seed every year.

**1350 Alata (Black Eyed Susan)** Mixture of orange, cream, and yellow shades - black centers. Pkt. (30 seeds) \$2.15; 1/8 oz. \$3.20; 1/4 oz. \$5.65; oz. \$15.10; 1/4 lb. \$60.40.

**1350B Alata Susie Mix** Contains 3 basic colors - orange, white and yellow in both clear and black eye types. Pkt. (10 seeds) \$2.75; 1/8 oz. \$14.80; 1/4 oz. \$26.20; oz. \$69.80; 1/4 lb. \$279.20.



## TITHONIA



CULTURE: 3,000 per oz/28 g. Sow indoors at 70°F/21°C soil temp. in pots April 1st for 8 in/20 cm plants for June transplants. Blooms in mid July.

**1342 Goldfinger** (30 in/76 cm) Huge 3.5 in/9 cm burnt orange, single blooms. Good cut flower. Great for hedges or tall borders. Pkt. (45 seeds) \$2.15; 1/16 oz. \$3.90; 1/4 oz. \$8.30; oz. \$33.20.

**1344 Fiesta Del Sol** (30 in/75 cm) Intense, bright orange 3 in/8 cm single daisy type blooms enjoy extreme heat, are drought and wind tolerant and attract butterflies. Allow 12-15 weeks from seed to bloom (mid July). AAS Winner. Pkt. (25 seeds) \$2.40; 250 seeds \$16.90; 1,000 seeds & over \$28.80 per M.



## TORENIA

CULTURE: Sow Feb.-April for May to July crops in 4 in/10 cm pots. Germinate at 70°F/21°C for 10 days. Grow plants cooler at 55°F/13°C to keep them short. For shady areas. Available in pelleted seed only.

**P1340 Kauai Mix** (8 in/10 cm) Has superior performance outdoors during extreme heat and a tighter flowering window of 7-9 days between 8 vivid colors. Use for indoor or outdoor containers in shaded locations. Pkt. (25 pellets) \$3.35; 250 pellets \$14.15; 1,000 pellets & over \$40.91 per M.

**P1341 Duchess Mix** (8 in/20 cm) Well branched dwarf plants are ideal for 4 in/10 cm pots. Great for shaded window boxes. Blend of 5 tricolors in white, blue and pink shades - all with yellow throats. Pkt. (25 pellets) \$2.40; 250 pellets \$12.75; 1,000 pellets & over \$36.93 per M.



Talinum - Limón



Torenia - Kauai Mix



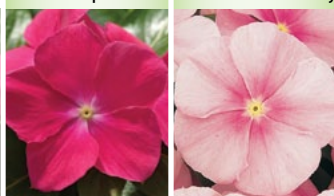
Cora Apricot



Jams N Jellies Blackberry



Cora Red



Mediterranean Hot Rose



Pacifica Icy Pink



Cora Strawberry



Vinca - Cora Mix



Vinca - Titan Mix



## VINCA



CULTURE: 20,000 seeds per oz/28 g. Sow indoors from February 15th - March 15th in 75-78°F/25-26°C soil. Cover seed lightly. Germinate in total darkness for 20 days. Transplant as soon as possible. Keep plants dry! NEVER overwater. M = 1,000 Seeds or Pellets.

### PACIFICA XP

(12 in/30 cm) Extra large 2 in/5 cm blooms, base branching plants. Blooms 60 days from seed. Early flowering. PVP.

**1400A Punch XP** **1400C Polka Dot XP**  
**1400F Apricot XP** **1400L Lilac XP**  
**1400N Lipstick Mix XP** **1400R Icy Pink XP**  
**1400S White XP** **1400T Really Red XP**  
**1400U Burgundy Halo XP** **1400V Dark Red XP**  
**1400W Cranberry XP** **1400M Pacifica Mix XP**

Prices for Pacifica XP colors & mix: Pkt. (50 seeds) \$2.40; 500 seeds \$6.95; 1,000 seeds & over \$9.77 per M.



### TRAILING VINCA MEDITERRANEAN XP



(24 in/60 cm spread) Heat tolerant. Improved trailing habit for hanging baskets. PVP.

**1403U Red XP** **1403R Hot Rose XP**  
**1403S Peach XP** **1403T White XP**  
**1403Z Lipstick Mix XP** **1403L Strawberry XP**  
**1403 Mediterranean Mix XP**

Prices Mediterranean XP colors & mix: Pkt. (25 seeds) \$3.35; 100 seeds \$5.05; 500 seeds \$19.85; 1,000 seeds & over \$27.92 per M.

### CORA® CASCADE™ HYBRIDS

(32 in/80 cm spread) Glossy green foliage with extra large flowers. As ground cover, plants average 8 in/20 cm high. Retains the same patented Aerial Phytophthora tolerance as the original Cora series but with a more vigorous trailing plant habit. VERY uniform flowering.

**1842E Apricot** **1842A Cherry**  
**1842B Lilac** **1842C Polka Dot**

**1842D Strawberry**  
**1842 Cora Cascade Mix** Apricot, lilac, cherry, polka dot white, magenta, strawberry, peach.

Cora Cascade prices: Pkt. (25 seeds) \$3.75; 250 seeds \$33.30; 1,000 seeds & over \$93.00 per M.

**1404A Jams N' Jellies Blackberry** (14-16 in/35-40 cm) First color of a new series of upright, slightly taller vincas. Dark purple color with a white eye. AAS Winner. Pkt. (25 seeds) \$3.10; 250 seeds \$17.65; 1,000 seeds & over \$49.29 per M.



### HYBRID VINCA



#### CORA®

(14-16 in/35-40 cm) The best hybrid vinca we have seen so far. Patented Aerial Phytophthora resistant plants have glossy green foliage, extra large flowers plus uniform habit and flowering time. Likes full sun. Crop time 14-17 weeks.

**1841A Apricot** **1841B Burgundy**  
**1841D Lavender/White eye** **1841E Violet**  
**1841F White** **1841G Punch**  
**1841H Pink** **1841J Red**  
**1841K Strawberry**  
**1841C Deep Lavender/White eye**

**1841 Cora Mix** Formula blend of 10 colors

Prices for Cora colors & mix: Pkt. (25 seeds) \$3.35; 100 seeds \$10.00; 500 seeds \$39.45; 1,000 seeds & over \$55.47 per M.

### TITAN SERIES

#### The Largest Flowered Vinca

(14-16 in/35-40 cm) Very uniform hybrid is two weeks earlier than O/P varieties. Superior branching and extra large flowers combine with excellent plant vigor and seed germination.

**1843 Titan Mix** Formula blend of 11 colors. Pkt. (25 seeds) \$3.35; 250 seeds \$18.10; 1,000 seeds & over \$50.60 per M.



## URSINIA



CULTURE: 15,000 seeds per oz/28 g. Use as a winter flowering house plant or for rock garden. Sow direct into 2 1/4 in/6 cm peat pots April 1st. Germinate at 70°F/21°C 12 days. 8 weeks from seed to sale.

**1349 Anethoides** (16 in/40 cm) Bright orange native of South Africa similar to gazania, flowers close at night or on cloudy days. Thrives in hot, poor soil. Pkt. (100 seeds) \$2.15; 1/16 oz. \$3.25; 1/4 oz. \$8.55.





Verbena - Tuscany Lavender Picotee

Zinnia - Oklahoma Mix

Zinnia - Profusion Double Deep Salmon

Zinnia - Swizzle Scarlet/Yellow

Zinnia - Profusion Mix



## VERBENA



**CULTURE:** 10,000 seeds per oz/28 g. Both hybrids germinate much better than O/Ps. Sow indoors Feb.15th - April 1st for May sales. 1/8 in/3 mm deep, cover lightly. Water trays 24 hours before sowing. Also drench with a fungicide to prevent damping off, then sow seed. Germinate at 72-75°F/22-24°C soil temp. for 7 days. Transplant in 4 weeks. Grow at 50°F/10°C. Use well drained sandy soil and do not overwater seeds or seedlings. Keep well ventilated.

## TUSCANY®

(10 in/25 cm) F1 hybrid. Unique breeding provides an extra early flowering window of 18-24 days after plants have produced 4 to 6 leaves - long daylength or extra light triggers flowering. Bushy plants are more tolerant to moist media after transplanting. Croptime after transplanting: Paks 6-8 weeks; 4 in/10 cm pots 7-9 weeks; Baskets 8-11 weeks.

**1366A Lavender Picotee**      **1366B Peach**  
**1366C Pink Picotee**      **1366D Rose with Eye**  
**1366E Violet with Eye**      **1366F White**  
**1366G Burgundy with Eye**      **1366H Orchid Frost**  
**1366J Scarlet**      **1366K Blue**  
**1366L Silver**      **1366 Tuscany Mix**

Prices for Tuscany colors & mix: Pkt. (25 seeds) \$3.85; 500 seeds \$14.60; 1,000 seeds \$23.26. Primed seed: 1,000 seeds & over \$26.75 per M.

**NOTE: Primed seed is available for Tuscany and Quartz series in increments of 1,000 and 5,000. Place an 'R' in front of the code when ordering.**

## QUARTZ

(10 in/25 cm) F1 hybrid. Plants are more vigorous than open pollinated strains. Most of the Quartz series have been improved and updated as XP types. New genetic breakthrough provides 85% plus plug potential and 12-13 weeks to flower in paks from seed. Allow 14 weeks from seed to bloom in 4 in/10 cm pots.

**1372A Scarlet XP**      **1372B White XP**  
**1372D Blue**      **1372E Burgundy XP**  
**1372F Red/Eye XP**      **1372G Burgundy/Eye XP**  
**1372J Carmine Rose XP**      **1372K Purple XP**  
**1372L Pink XP**      **1372N Waterfall Mix XP**  
**1372 Quartz Mix XP** Formula blend of XP colors

Prices for Quartz colors & mix: Pkt. (25 seeds) \$2.70; 500 seeds \$14.40; 1,000 seeds & over \$22.92 per M. Primed seed: 1,000 seeds & over \$26.65 per M.



## TRAILING VERBENA



Rigida Venosa must be sown in January for spring sales. Germinate at 70°F/21°C for 15-20 days. Press seed into soil in total darkness. Transplant 4-5 weeks later. Grow at 50°F/10°C. Keep ventilated. Spray for aphids.

**1370 Imagination** (Trailing 12 in/30 cm) Violet blue on lacy green foliage. 25,000 seeds per oz/28 g. Pkt. (25 seeds) \$2.45; 250 seeds \$8.70; 1,000 seeds \$14.86.



Tuscany Pink Picotee



Tuscany Peach



## ZINNIA



Growers using the Magellans should start seed 9 weeks before sale in the North for flowering pots, 6 weeks prior to sale for green plants. In the South, start 8 weeks before sale for flowering pots or 5 weeks ahead for green plant sales. All of these large flowered dwarfs are quite sensitive to daylength, so to prevent tall leggy plants do not try to start them too early.

**CULTURE:** 2,500-6,200 seeds per oz/28 g. Seed size varies greatly according to color and type. **GREENHOUSE:** Sow March 20th - April 1st for June sales. Germinate in 80°F/27°C soil, 1/8 in/3 mm deep and cover lightly. Use tempered water. Transplant as soon as possible (10 days from seeding) at the same depth as seedlings. Keep well ventilated - no cold drafts. **DIRECT SEED:** Limit outdoor sowings to the less expensive open pollinated types (hybrids not practical). Sow or broadcast seed after June 10th or when soil temp. reaches 70°F/21°C. Transplant tall types 20 in/50 cm apart, dwarf types 8-10 in/20-25 cm apart. Cut flowers last 4-5 days. **M = 1,000 Seeds or Pellets.**



## DWARF BUTTON TYPE

(10-12 in/25-30 cm) 6,200 seeds per oz/28 g. Neat compact plants are covered with fully double flowers 1.5 in/4 cm in diameter. Ideal for borders, massed beds, pots or planters.

**1406 Button Box Mix** Standard bedding plant mixture for borders, massed beds, pots or containers. Plants bloom in paks and are slightly shorter than the Cupids - with larger fully double flowers. Color range includes red, white, yellow, pink, cherry, rose and orange. Pkt. (80 seeds) \$2.20; 1/4 oz. \$3.50; oz. \$7.10; 1/4 lb. \$28.40.

**1417 Thumbelina** (6 in/15 cm) Semi-double flowers. Plants are excellent for borders, arranged in alternate double rows 8 in/20 cm apart. 2,800 seeds per oz/28 g. Pkt. (80 seeds) \$2.20; 1/4 oz. \$3.50; oz. \$7.80.



## SMALL FLOWERED DOUBLES

## LILLIPUT (POMPON)

(2 ft/60 cm) Small flowered solid blooms 2 in/5 cm in diameter. Plants provide an ideal bedding or cut flower item.

**1468 Lilliput or Pompon, Finest Mix Colors** include crimson, rose, pink, yellow, lavender, white. Pkt (100 seeds) \$2.20; 1/4 oz. \$3.00; oz. \$6.65; 1/4 lb. \$26.60.

## OKLAHOMA

(30-40 in/75-100 cm) Medium sized semi-double and double dahlia flowered 1.5 in/4 cm blooms. Sturdy plants have some tolerance to powdery mildew. High yielding cut flower - long vase life.

**1469 Oklahoma Mix** Formula blend of salmon pink, golden yellow, scarlet and white. Some powdery mildew tolerance. Use as a background flower in hot, dry locations or as a cut flower. Pkt (50 seeds) \$2.45; 250 seeds \$5.65; 1,000 seeds & over \$9.66 per M.

## MAGELLAN™ SERIES COLORS



Coral



Orange



Pink



Ivory



Scarlet



Yellow



## HYBRID GRANDIFLORA DWARF

## SWIZZLE™

(10-12 in/25-30 cm) Bushy plants fill 4 in/10 cm pots or outdoor beds quickly. Height is between Short Stuff and Peter Pan types. Plants spread 8-10 in/25-30 cm and are not mildew tolerant - so do not crowd them too tight in pots or beds. Large fully double 2 in/5 cm blooms cover sun loving plants. Crop time 8-9 weeks. First two varieties are stunning bicolors.

**1484A Cherry/Ivory**      **1484B Scarlet/Yellow**

Prices for Swizzle colors: Pkt. (10 seeds) \$4.75; 100 seeds \$27.45; 500 seeds \$111.25; 1,000 seeds & over \$171.31 per M.

## MAGELLAN™

(12-14 in/30-35 cm) Replaces the Peter Pan series as our best dwarf Dahlia flowered Zinnia for pots or bedding. Very uniform plant for pots. Exceptional, large fully double blooms.

**1485A Cherry**      **1485B Coral AAS Winner**  
**1485C Ivory**      **1485D Orange**  
**1485E Pink**      **1485F Salmon**  
**1485G Scarlet**      **1485H Yellow**  
**1485 Mix**

Prices for Magellan colors & mix: Pkt. (15 seeds) \$4.25; 100 seeds \$20.60; 500 seeds \$83.45; 1,000 seeds & over \$128.48 per M.

## PROFUSION

(12 in/30 cm) Very early, small flowered 2 in/5 cm single blooms cover bushy dwarf plants. Plants have tolerances to powdery mildew and hot weather. The Double series has 2 in/5 cm double blooms. Orange, cherry and white are AAS Winners. Profusion and Profusion Double are PVP.

**1483A Cherry**      **1483B Orange**  
**1483C White**      **1483D Fire Bronze**  
**1483E Apricot**      **1483F Coral Pink**  
**1483H Yellow**      **1483M Mix**

Prices for Profusion colors & mix: Pkt. (15 seeds) \$2.85; 100 seeds \$8.95; 500 seeds \$36.80; 1,000 seeds & over \$52.61 per M.

## PROFUSION DOUBLE

(12 in/20 cm) Both yellow and deep salmon are 2014 AAS Winners.

**NEW 1482D Yellow**      **NEW 1482E Deep Salmon**  
**NEW 1482F Hot Cherry**      **1482A Golden**  
**1482B White**      **1482C Fire**  
**1483G Cherry**      **1482M Mix**

Prices for Profusion Double colors & mix: (12 in/30 cm) Pkt (15 seeds) \$2.85; 100 seeds \$8.95; 500 seeds \$36.80; 1,000 seeds & over \$52.61 per M.

## PROFUSION KNEE HIGH SERIES

(20 in/50 cm) Extra height allows growers to use these as knee high backgrounds or cut flowers. PVP.

**1488A Red**      **1488B White**

Prices for Profusion Knee High colors: Pkt. (15 seeds) \$2.85; 100 seeds \$8.95; 500 seeds \$36.80; 1,000 seeds & over \$52.61 per M.





Zahara Mix



Burpeeana Giant Mix



Peppermint Stick



Benary's Giant Series



Sunshine Mix

**AFRICAN ZINNIA (Melampodium)**

(10 in/25 cm) Very dwarf plants with bright green leaves and 3/4 in/2 cm single, daisy flowered blooms. Plants spread 15 in/38 cm. Outstanding potted plant for dry locations - great drought tolerance and better mildew tolerance. Sow indoors April 1st.

**1474A Million Gold** (8 in/20 cm) Best extra dwarf for 4 in/10 cm pots. Golden yellow 1 in/2.5 cm flowers.

**1474B Lemon Delight** (8 in/20 cm) Lemon yellow  
Prices for African Zinnia colors: Pkt. (15 seeds) \$2.15; 250 seeds \$15.65; 1,000 seeds & over \$40.66 per M.

**STAR**

(8 in/20 cm) Angustifolia multiflora single zinnia. Used as an extra dwarf ground cover. Small, single 1.5 in/4 cm daisy-like blooms cover bushy plants from July until frost. Some mildew tolerance.

**1476 Star Mix** (8 in/20 cm) Orange, yellow and white  
Pkt. (50 seeds) \$2.15; 500 seeds \$4.75; 1,000 seeds & over \$6.43 per M.

**DWARF LARGE SINGLE ZINNIAS****ZAHARA®**

(12 in/30 cm) Marylandica type with 20% larger single blooms. Extra PM and drought tolerance! Spreads 12-18 in/30-45 cm. For beds and containers. Coated seed. M = 1,000 Seeds or Pellets. PVP.



**1456G Cherry**      **1456A Coral Rose**  
**1456B Scarlet**    **1456C White**  
**1456D Yellow**     **1456E Fire**  
**1456F Starlight Rose**   **1456 Zahara Mix**

Prices for Zahara colors & mix: Pkt. (15 seeds) \$3.40; 250 seeds \$23.45; 1,000 seeds & over \$52.23 per M.



**1456H Sunburst** 250 seeds \$23.45; 1,000 seeds & over \$52.23 per M.

**DWARF LARGE DOUBLE ZINNIAS**

**1575A Double Zahara Cherry** (16 in/40 cm) AAS Winner  
**1575B Double Zahara Fire** (16 in/40 cm) AAS Winner

Prices for Double Zahara Cherry & Fire: Pkt. (15 seeds) \$3.40; 250 seeds \$30.05; 1,000 seeds & over \$66.86 per M.

**1575C Double Zahara Strawberry** (16 in/40 cm)  
Commercial Sales Only. 250 seeds \$30.05; 1,000 seeds & over \$66.86 per M.

**GIANT CACTUS FLOWERED ZINNIA**

**1448 Burpeeana Giant Mix** (35 in/90 cm) O/P Cactus Flowered type for commercial cut flower and bedding plant use. Carefully blended from separate colors - Pink, orange, red, rose and white blooms average 5-6 in/13-15 cm. Pkt. (80 seeds) \$1.90; 1/4 oz. \$2.55; oz. \$3.65; 1/4 lb. \$14.60.

**NOVELTY FLOWERED TYPES**

**1457A Pop Art Golden & Red** (24-32 in/60-80 cm)  
Novelty bicolor dahlia flowered zinnia - eye catching golden yellow petals with blood red flecks. Unique background type. Pkt. (80 seeds) \$3.75; 1/4 oz. \$25.85; oz. \$70.50.



**1457B Graffiti Mix** (24-32 in/60-80 cm) Nice dahlia flowered mix of bright colors, yellow, orange, red, pink and bicolored gold with red flecks. Crop time (sowing until flower) - 90 days. Use for cut flowers or tall backgrounds. Pkt. (80 seeds) \$2.35; 1/4 oz. \$5.60; oz. \$15.30.

**1463 Peppermint Stick** (28 in/70 cm) Great cut flower! Beautiful double dahlia flowered blooms striped and flecked with many bicolors. Pkt. (80 seeds) \$2.15; 1/4 oz. \$5.80; oz. \$8.30; 1/4 lb. \$33.20.

**1478 Whirligig** (20 in/50 cm) Gorgeous mixture includes yellow/crimson, red/white, pink/white, also cream/rose, bronze/red plus many other beautiful blends. Fully double 3-4 in/8-10 cm blooms. Pkt. (80 seeds) \$2.15; 1/4 oz. \$2.95; oz. \$3.65; 1/4 lb. \$14.60.

**DAHLIA FLOWERED ZINNIAS**

**1435 Giant Dahlia Flowered Mix** (2.5 ft/76 cm) Formula blend of standard colors used by the bedding plant trade; green, lavender, light rose, orange, purple, red, rose, scarlet, and yellow. Pkt. (80 seeds) \$1.90; 1/4 oz. \$3.00; oz. \$6.60; 1/4 lb. \$26.40; 1/2 lb. \$52.80; lb. \$105.60.

**1462 State Fair Mix** (2.5 ft/76 cm) One of the best giant flowered zinnias for the bedding plant trade. This tetraploid strain produces huskier plants and shows a tolerance to mildew and alternaria. Pkt. (40 seeds) \$2.50; 100 seeds \$3.95; 500 seeds \$10.80; 1,000 seeds & over \$16.66 per M.

**HYBRID DAHLIA FLOWERED ZINNIAS****SUN**

(20 in/50 cm) Early dahlia flowered type with powdery mildew tolerance. Plants bloom 60-70 days from seed. Colors do not fade in intense sunlight, blooms average 4 in/10 cm across and are fully double. Wind tolerant.

**1436 Red Sun**    **1436A Gold Sun**    **1436B Cherry Sun**  
**1436M Sunshine Mix** Blend of red, golden yellow, cherry and white.

Prices for Sun colors & mixture: Pkt. (15 seeds) \$2.85; 100 seeds \$9.25; 500 seeds \$37.50; 1,000 seeds & over \$57.75 per M.

**1486 Zowie!™ Yellow Flame** (24 in/60 cm) A beautiful tall bushy plant. Lots of large 3.5-4 in/8.5-10 cm blooms with magenta-orange centres and yellow tips.

**1487A Uproar Rose** (28 in/70 cm) First color of a new F1 hybrid Dahlia Flowered class. Intense wine colored, double blooms cover plants. Loves heat! Great cut flower.

Prices for Zowie! & Uproar Rose: Pkt. (10 seeds) \$4.10; 100 seeds \$22.50; 500 seeds \$91.20; 1,000 seeds & over \$140.47 per M.



Benary's Giant Lime



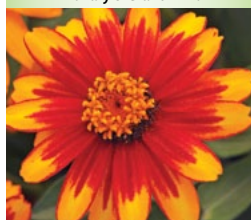
Pop Art Golden &amp; Red



Double Zahara Strawberry



Zahara Yellow



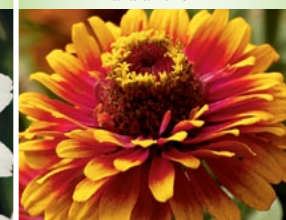
Zahara Sunburst



Zahara Cherry



Zahara Starlight Rose



Zowie! Yellow Flame

**BENARY'S GIANT DAHLIA FLOWERED ZINNIAS**

(40-50 in/100-125 cm) Fresh Cut Flower of the Year award by ASCFG, this magnificent series produces high yields of long thick extra large, fully double 4-5 in/10-13 cm blooms on sturdy stems. Proven better field tolerance to Powdery Mildew than other O/P tall types. Use for commercial cut flowers or backgrounds.

**1455A Bright Pink**    **1455J Orange**    **1455G Coral**  
**1455B Carmine Rose**    **1455K Purple**    **1455H Lilac**  
**1455D Golden Yellow**    **1455L Scarlet**    **1455W Wine**  
**1455E Salmon Rose**    **1455M White**    **1455N Lime**  
**1455C Deep Red**

**1455 Benary's Giant Formula Mix**

Prices Benary's Giant colors & mix: Pkt. (25 seeds) \$2.15; 250 seeds \$15.85; 1,000 seeds & over \$36.05 per M.

**WILDFLOWER MIXTURES**

**CULTURE:** Seed count varies with each mixture but average 1 lb/454 g per 8,500 sq. ft/790 sq. m or 5 lbs/2 kg per acre. Provide plenty of sun, try to avoid dense shady areas. Choose a sandy-loam soil if possible. **SEEDING TIME** is most important! Seed must be sown as early as possible in the spring as soon as the snow disappears. Good Friday (late March or early April) is a good time to sow. Seed sown after May 15th will adversely effect the survival of some of the hardy perennials resulting in a poor mixture next spring.

**1396 Rocky Mountain Wildflower Mix** Contains 18 varieties or more including 7 annuals and 11 perennials. Red, white, blue, yellow, purple, orange and gold. Approx. 545,000 seeds per lb/454 g; 1 lb/454 g per 8,500 sq. ft/790 sq. m; 5 lbs/2 kg per acre.

**1396A Eastern Canadian Wildflower Mix** Contains 17 or more varieties (9 annuals and 8 perennials) red, white, blue, yellow, pink, lavender. Approx. 760,000 seeds per lb/454 g; 1 lb/454 g per 8,700 sq. ft/808 sq. m; 5 lbs/2 kg per acre.

**1396B Midwestern Wildflower Mix** Contains 20 or more varieties (12 annuals and 8 perennials and biennials), red, white, blue, yellow, purple and pink. Approx. 835,000 seeds per lb/454 g; 1 lb/454 g per 10,000 sq. ft/929 sq. m; 4 lbs/1.8 kg per acre.

Prices for Wildflower mixtures: Pkt. (1,000 seeds) \$2.75; 1/4 oz. \$26.00; oz. \$49.35; 1/4 lb. \$164.95; 1/2 lb. \$285.75; lb. & over \$423.95 per lb.





Abutilon - Bella Select Mix



Armeria - Ballerina Lilac



Capsicum - Medusa



Browallia - Blue Bells



Gaultheria - Very Berry



## POTTED PLANTS FOR COMMERCIAL GREENHOUSE GROWERS



### HYBRID ABUTILON

#### FLOWERING MAPLE OR CHINESE BELL FLOWER

CULTURE: 8,500 seeds per oz/28 g. Abutilon is really a tender shrub. Blooms the first summer in 4 in/10 cm pots, baskets or as a small standard, in gallon containers, in about 11-13 weeks. Sow April 1st, germinate 3-5 days at 70°F/21°C at high humidity, cover seed lightly. Flowers from seed in 80 days.

**477 Bella Select Mix** (8-14 in/10-35 cm) F1 hybrid. Large 3-4 in/7.5-10 cm pastel blooms. Ivory, lemon, pink, apricot, rose, coral, red. Plants bloom continuously indoors or out. 250 seeds \$77.80; 1,000 seeds & over \$221.08 per M.

### ASPARAGUS

CULTURE: 600-750 seeds per oz/28 g. Soak seed for 48 hrs. in warm water or wet paper towel. Viable seeds will swell up. Sow in a sterile medium - cover seed lightly. Maintain uniform moisture. Use clear plastic or glass to cover seed flats to control humidity and temperatures. Germinate seed at 75-80°F/24-27°C for 21-42 days. Grow seedlings at 65-70°F/18-21°C. Transplant into 4 in/10 cm pots. Sow in April or Nov. - plants mature 26-28 weeks from seeding.

**611 Sprengeri Emerald Feather.** Long graceful needle-like sprays for baskets. Pkt. (40 seeds) \$2.65; 100 seeds \$5.05; 500 seeds \$17.30; 1,000 seeds & over \$24.37 per M.

**610 Plumosus Nanus** Base branching, fine fern-like lime green foliage for bouquets. Pkt. (20 seeds) \$4.75; 100 seeds \$20.45; 500 seeds \$70.15; 1,000 seeds & over \$98.70 per M.



Capsicum - Fireworks



Cactus - Super Greenhouse Mix



Capsicum - Purple Flash



Asparagus - Sprengeri



Capsicum - Sangria



Canna - South Pacific Scarlet



### ARMERIA (Thrift)



CULTURE: Soak seeds for 3 hrs. before sowing. Germinate inside in Feb. or outdoors in Aug. at 70°F/21°C for 25 days, cover seed lightly. Keep moist. Blooms May/June. Great for pots!

#### BALLERINA

**Pseudarmeria Type** (6-8 in/12-20 cm) Flowers first year from seed. Used as an annual in the northeast or a perennial in zone 6. Fleuroselect Gold Medal Winner. Crop time 18 weeks in 4 in/10 cm pots.

**6102 Mix**

**610B White**

Prices for Ballerina colors: Pkt (25 seeds) \$2.70; 250 seeds \$15.65; 1,000 seeds & over \$47.59 per M.

**610A Red**

**610C Lilac**

#### ARMADA™ SERIES

**Micro size Armeria** (3-4 in/7-10 cm) Use in 4 in/10 cm pots, gallon containers, rock gardens or as a ground cover. For larger plants, sow in Sept. and vernalize for partial shade/spring blooming plants. Hardy in zone 4. Day neutral.

#### 609C Armada Rose

Prices for Armada Rose & White: Pkt. (25 seeds) \$2.20; 250 seeds \$8.20; 1,000 seeds & over \$20.77 per M.

### BROWALLIA

CULTURE: 120,000 seeds per oz/28 g. (8-10 in/20-25 cm) Sow Dec. 1st for Mother's Day, by March 1st for summer beds or August for winter pot plants. Germinate for 20 days in 70°F/21°C soil, do not cover seed. Transplant into 5 in/13 cm pots of Jiffy Mix and sand, pinch when needed. Sow outdoors in June, thin to 6 in/ 15 cm. Blooms average 1.5 in/4 cm; plants 8-10 in/20-25 cm.

**714B Blue Bells**

**714 Silver Bells** White

**714D Marine Bells** Dark blue

Prices for Browallia colors: Pkt. (50 seeds) \$2.25; 500 seeds \$9.50; 1,000 seeds & over \$12.61 per M.

### CACTUS

CULTURE: Cacti are slow growing and may be sown indoors anytime. Seeds respond to alternating temperatures of 65-80°F/18-27°C in about 20-50 days. Seed needs light, do not cover. Keep moist. Seedlings may remain in their pot for several months before transplanting. Soils should be open in texture to insure proper drainage. Sand may be added to soil.

**721A Super Greenhouse Mix** Blended from small seeded expensive types. Good variety for greenhouse and sales. Pkt. (20 seeds) \$3.75; 1/256 oz. \$6.60; 1/128 oz. \$11.45; 1/64 oz. \$17.05; 1/32 oz. \$34.10; 1/16 oz. \$68.20.

### CANNA (Tropical Series)

CULTURE: Approx. 1,500 scarified seeds per lb. Plants should bloom 100-130 days from seeding. Sow indoors Jan. 15 -Feb.15th, ¼ in/ 6 mm deep, cover seed with soil. Germinate at 70-75°F/21-24°C for 10-15 days. Grow seedlings cooler at 65°F/15°C, transplant at 2 leaf stage into 4 in/10 cm pots. 5-6 leaf stage transplant again into gallon containers or 10 in/25 cm pots. Plants flower at 1.5 ft/45 cm. Seed has been scarified for easier germination.

**746A Red**

**746C Yellow**

**746 Rose**

**746B Salmon**

**746D White**

Prices for Canna colors: Pkt. (10 seeds) \$7.60; 100 seeds \$38.35; 500 seeds \$147.25; 1,000 seeds & over \$294.50 per M.



**1766A South Pacific Scarlet** First color of the hybrid South Pacific series. Compact, vigorous virus free, daylength neutral, well branched plant. Repeats blooming on multiple spikes. AAS Winner. Pkt. (10 seeds) \$9.30; 100 seeds \$48.40; 500 seeds \$187.50; 1,000 seeds & over \$375.00.



### CAPSICUM (Ornamental Pepper)

CULTURE: 8,000 seeds per oz/28 g. Sow peppers April 15th. Germinate at 72°F/ 22°C soil temperature for 14 days, cover seed. Use Jiffy Mix or sandy soil. Allow 4-6 months from seed. PVP - Medusa & Black Pearl.

**815E Fireworks** Garda Series (16 in/41 cm). Ornamental bedding plant matures - yellow, pale purple, orange to red with green leaves over 4 months. Pkt. (10 seeds) \$4.75; 100 seeds \$15.90; 1,000 seeds & over \$105.99 per M.

**815 Red Missile** (10 in/25 cm) Tapered 1.5 in/4 cm missile shaped very HOT edible fruit change from cream to orange to red.

**807M Medusa** (8 in/20 cm) "Sweet fruit" type (not hot) matures ivory, yellow, orange, red. 2 in/5 cm slender fruit at 40-50 per plant.

**815A Sangria** (12 in/30 cm) "Sweet fruit" type (not hot) with continuous setting purple and red fruit on well branched, spreading, semi-indeterminate plants. Use in landscapes and extra large or gallon containers.

Prices for three Capsicum above: Pkt. (10 seeds) \$4.75; 100 seeds \$16.00; 500 seeds \$69.35; 1,000 seeds & over \$106.53 per M.

**807A Black Pearl** (24 in/60 cm) Tall green foliage turns glossy black at maturity - used for tall foliage backgrounds. Dark red edible fruit are HOT! AAS.

**807B Calico** (10 in/25 cm) Unique, mounded, upright plants have variegated cream, green and purple foliage. Short, conical, glossy black fruit is too hot to eat! Use for 6 in/15 cm pots or gallon containers.

**807C Purple Flash** (15 in/38 cm) Unique, layered, exotic plant with bright purple and black bicolor leaves, topped with small, round, glossy black fruit that are too hot to eat! Use for 6 in/15 cm pots or gallon containers.

Prices for above 3: Pkt. (10 seeds) \$4.75; 100 seeds \$23.75; 500 seeds \$103.15; 1,000 seeds & over \$158.46 per M.

**815M Very Berry** Gaultheria procumbens (6 in/15 cm) Tender perennial - zones 6-9. Compact evergreen shrub with white flowers from July - August with lots of large red ornamental berries that are slightly toxic in high doses from Sept. throughout the fall. Berries do not drop easily! Great fall potted plant. Pkt. (10 seeds) \$2.20; 100 seeds \$5.70; 1,000 seeds & over \$15.70 per M.





Gerbera - Elephant Scarlet



Cyperus - Wild Spike



Chaenarrhinum - Summer Skies



Dichondra - Silver Falls



Gerbera - Festival Select Mix



## POTTED PLANTS FOR COMMERCIAL GREENHOUSE GROWERS



### HYBRID CINERARIA

**CULTURE:** 100,000 per oz/28 g. Sow Aug.- Nov. for nice March and April plants for Easter. Germinate at 75°F/24°C for 14 days. Do not cover seeds. Seed germinates quite irregularly, so do not be in a hurry to transplant.

**816B Jester Mix** (6 in/15 cm) Compact, very uniform, small flower, small leaf miniature. High percentage of bicolors in a 5 color mix. Use for 5-6 in/12-15 cm pots. Pkt. (10 seeds) \$3.85; 250 seeds \$22.70; 1,000 seeds & over \$60.49 per M.



### CHAENARRHINUM

Perennial in Zones 5B-8. 430,000 seeds per oz/28 g. **CULTURE:** Use as a ground cover, bedding plant or for beautiful blue hanging baskets. Sow Jan-June. Use 288 or 144 plugs at 3-4 seeds per cell. Germinate seeds at 68°F/20°C for 21 days, cover seeds lightly. Use well drained soil, PH 6.5. Transplant seedlings into 4 in/10 cm pots about 7 weeks after sowing.

**924 Summer Skies Organifolium** (8 in/20 cm). Trailing or spreading heat tolerant plants are covered with small sky-blue blooms with contrasting white eye. Pkt. (25 seeds) \$2.20; 500 seeds \$11.80; 1,000 seeds & over \$16.27 per M.



### CROSSANDRA

**CULTURE:** 6,180 seeds per oz/28 gr. Allow 17-20 weeks crop time for flowering 4 in/10 cm pots. Blooms continuously in landscapes or containers in southern USA. Popular (10 in/25 cm) indoor pot plant in the northeast. Loves heat! Germinate at 80°F/26°C days and 70°F/21°C nights for 21-28 days. Grow plants at 68-75°F/20-24°C.

**822A Tropic Flame Orange** Pkt. (15 seeds) \$6.65; 100 seeds \$18.80; 250 seeds \$39.80; 1,000 seeds & over \$130.27 per M.



### CUPHEA (Cigar Plant)

**CULTURE:** 16,000 seeds per oz/28 g. Sow indoors February 15th for Mother's Day. Use for pots, borders or beds. Likes full sun or partial shade. Allow 11-12 weeks from seed to flower, in paks or pots.

#### MATCHMAKER SERIES

First time 3 colors are available. Tiny cigar-like blooms. Self cleaning 6-8 in/15-20 cm plants.

**913B Pink**

**913D White**

**913M Mix**

Pkt. (25 seeds) \$4.30; 250 seeds \$15.00; 1,000 seeds & over \$48.20 per M.

### CYPERUS (Umbrella Plant)

**CULTURE:** An excellent house plant or a unique foliage plant for wet areas. Sow indoors - soak seed for 10 hours before sowing in January/March at 70°F/21°C soil temp. Press seed into soil - do not cover. Germinates in 15-21 days.

**1709 Wild Spike** Alternifolia (18-30 in/45-76 cm) Unique foliage for containers, indoors or outdoors. 300,000 seeds per oz/28 g. Pkt. (25 seeds) \$1.90; 250 seeds \$2.40; 1,000 seeds & over \$8.22 per M.



### DICHONDRA

**CULTURE:** 6,070 seeds per oz/28 gr. Allow 11-12 weeks for finished 4 in/10 cm pots and 13-14 weeks for 10 in/25 cm containers. Sow January 15th - February 1st. Germinate at 72-76°F/22-24°C for 4 days. Grow plants at 65-76°F/18-24°C days and 62-65°F/16-18°C nights. Rounded, fan shaped silver 1 in/3 cm leaves on short ¾ in/2 cm side stems with long, 4 ft/1.2 m main trailing stems. Great for containers or as a ground cover. Branches without pinching, heat tolerant. Silver or green leaves.

**P910B Emerald Falls Green** (Multi-pellet only)

**910A Silver Falls Silver**

Prices for Dichondra colors: Pkt. (10 seeds) \$4.75; 100 seeds \$23.20; 250 seeds \$49.05; 1,000 seeds & over \$160.60 per M.



### DRACAENA (Spikes)

**CULTURE:** (9,900 seeds per oz/28 g) Sow in August for good 3 in/8 cm pots for May sales and December for 2.25 in/6 cm plants. Requires 15 months for husky 4-5 in/10-13 cm plants. Soak seed for 4 hours, then sow on soil surface (requires light to sprout). Germinate at 80°F/27°C for 28-35 days.

**895A Indivisa Pkt.** (65 Seeds) \$1.90; 250 seeds \$5.65; 1,000 seeds & over \$11.18 per M. Rubbed seed.

### GLOXINIA

**CULTURE:** May be seeded several different times throughout the season. A December - January sowing is preferred for June flowers. Sow May 30th for Christmas plants. Germinate at 75°F/24°C day and night for 20 days. Grow at 70°F/21°C. The small late seedlings are the best colors. Pelleted seed.

**968 Empress Mix** (10 in/25 cm) Best potted plant blend of solid colors and picotee shades. European strain. Pkt. (25 seeds) \$3.65; 250 seeds \$12.50; 1,000 seeds & over \$33.37 per M.

### GERBERA (Transvaal Daisy)

**CULTURE:** In the Northeast, sow Nov. 20th for early May flowering pots. Sow Feb. for Sept. blooms. Use a 128 cell tray with well-drained sterile medium like Pro Gro with good aeration, slightly fertilized for a pH of 5.5 to 5.8. Germinate at 75°F/24°C for 8-10 days. Leave seed uncovered and keep moist. Press seed into media surface but do not cover. Try to maintain a humidity of 70-75% and incandescent light of at least 12 hours per day in your germination chamber - for 8 to 14 days. Keep seedlings slightly shaded and cooler at 68-72°F/20-22°C, 20-30% humidity. Do not over water seedlings or keep them too damp between waterings. Rinse seedlings off after adding fertilizer (calcium nitrate plus 20-10-20) every third watering. During dark weather, maintain supplementary lighting at 300-500 foot candles for 14 hours per day. As plugs or transplants develop 2 to 4 true leaves (4-6 weeks later), lower growing temps to 60°F/16°C. Allow 6 to 10 weeks from transplanting to flower. Grow plants at 72°F/22°C days and 65°F/18°C nights. Crop time for 5 in/15 cm pots 13-18 weeks.

**908A Festival Select Growers Mix** (6 in/15 cm) F1 hybrid. Compact uniform plants with tight flowering window. 8 weeks earlier than some hybrids. Bright filmcoat. Pkt. (10 seeds) \$5.75; 100 seeds \$35.90; 1,000 seeds & over \$275.88 per M.

**908B Royal Premium Mix** (6 in/15 cm) F1 hybrid. Formula blend of a dozen fantastic colors. Uniform flowering time, lots of semi double flowers per plant, short culture time. Pkt. (10 seeds) \$5.75; 100 seeds \$37.00; 1,000 seeds & over \$284.42 per M.

**908S Elephant™ Scarlet** (16 in/40 cm) Produces 3-4 huge 3.5-4 in/9-10 cm blooms on an extra large bushy plant with very thick stems which ship well in 6 in/15 cm pots. Pkt. (10 seeds) \$5.75; 100 seeds \$49.25; 1,000 seeds & over \$377.57 per M.

### GREVILLEA (Silk Oak Tree)

**CULTURE:** 3,000 per oz/28 g. Sow June 15th for Christmas pots. Germinate in 80°F/27°C soil. Do not cover seeds. Pinch August 1st.

**953 Robusta** (12 in/30 cm) Similar to asparagus. Fern-like in appearance. Great florist potted plant. **Crop Failure.**



### IRELINE



**CULTURE:** 44,800 seeds per oz/28 gr. Sow February 1st - 15th. Allow 11-14 weeks for finished 4 in/10 cm pots or 10 in/25 cm hanging baskets. Cover seed lightly, germinate at 74°F/23°C for 4 days. Use as purple foliage for cascading baskets or as ground cover. Spreads 3-4 ft/1-1.2 m.

**966A Purple Lady** (8 in/20 cm) Plant with coleus or impatiens in partial sun. Pkt. (10 seeds) \$5.75; 250 seeds \$49.05; 1,000 seeds & over \$160.60 per M.



Crossandra - Tropic Flame Orange



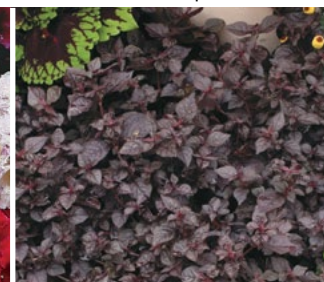
Dracaena - Indivisa



Grevillea - Robusta



Gloxinia - Empress Mix



Iresine - Purple Lady





Polka Dot Plant



Platycodon - Sentimental Blue



Ranunculus - Maché Yellow



Strawberry - Toscana



Trachelium - Devotion White



Ranunculus - Magic Mix

## POTTED PLANTS FOR COMMERCIAL GREENHOUSE GROWERS

### PAPAVER

See Poppy - Listed on page 96.

### PENTAS

**CULTURE:** Commercial growers should plant one pellet per plug cell Jan/Feb for May flowering potted plant sales. Crop time 14-18 weeks from seeding, depending on greenhouse temperatures, soil pH, pot size and fertilizer program. Press pellets into soil surface. Germinate at 73-79°F/23-26°C for 10-14 days. As cotyledons sprout, reduce temperatures to 70-73°F/21-23°C. As first true leaf appears, reduce temps to 64-70°F/18-21°C. Fertilize at 150 ppm nitrogen. Maintain pH levels between 6.5 and 6.8 to avoid magnesium deficiencies or iron toxicity. Cooler temps below 50°F/10°C will delay flowering. Do not over water.

**P1675A Northern Lights® Lavender** (20 in/50 cm) Free flowering plants are more tolerant to Northeastern cooler spring and early summer growing conditions than other Pentas varieties. New flower heads appear long before earlier blooms are finished. Perfect for container gardening or large landscape beds. 100 seeds \$20.35; 1,000 seeds & over \$126.44 per M. Pelleted seed.

### PLATYCODON

**CULTURE:** 27,500 seeds per oz/28 g. Sow indoors Jan. 1st at 70°F/20°C for 21 days. Press seed into the soil, expose to light. Plants bloom 14 weeks from seed. To use Komachi as a cut flower, scald stems with hot water after cutting. PERENNIAL.

**1270A Komachi Blue Balloon** (10 in/24 cm) Unique 1.5 in/4 cm balloon shape. Pkt. (25 seeds) \$4.75; 1/256 oz. \$21.70; 1/128 oz. \$40.35; 1/64 oz. \$61.85; 1/32 oz. \$123.70.

**1270 Sentimental Blue** (8 in/20 cm) A tender perennial potted plant which is hardy from zones 3-8. Crop time 14 weeks. Star shaped 2 in/5 cm blooms. Pkt (25 seeds) \$3.75; 250 seeds \$14.05; 1,000 seeds \$44.96.



Spilanthus - Peek-A-Boo



Succulents - Hens and Chickens



Pentas - Lavender



Strawberry - Pikan

Quality Seed Since 1881

### POLKA DOT PLANT (Hypoestes)

**CULTURE:** 24,500 seeds per oz/28 g. Germinate at 70°F/21°C for 7 days, cover seed lightly. Use several light applications of a growth regulator (3 or 4 times, 10-15 days apart at 250 PPM) rather than one concentrated treatment of 1,000 PPM. This should keep potted plants short for a while after sale. Pinching is not recommended. Plants take 11-13 weeks from seed to sale. Use 5 or 6 seedlings per 6 in/16 cm pot. Long daylength outdoors will cause plants to stretch to 16 in/40 cm.

**1244 Pink Splash Select** Pink spots/green leaves  
**1244D Red Splash Select** Red spots/green leaves  
**1244A White Splash Select** White spots/green leaves  
 Prices for three Splash colors: 50 seeds \$2.55; 500 seeds \$10.95; 1,000 seeds & over \$17.50 per M.

### HYBRID RANUNCULUS

**CULTURE:** Approx. 42,500 seeds per oz/28 g. Crop time 21-24 weeks from seeding. Used for greenhouse cut flowers, indoor house plants and outdoor cut flowers in the fall. Germinate cool at 50°F/10°C for 14 to 21 days from Sept.-Jan. Grow plants at 60°F/15°C days and 40°F/5°C nights.

#### MACHÉ™

(12-16 in/30-40 cm) Very early flowering, large flowered type with faster growing dark green foliage. Blooms mature about 10 weeks earlier than Bloomingdales. Stems become longer as daylength increases. Grow cool! Active growth ceases at 70°F/20°C. Sow in August for March sales.

**1732A Orange** **1732B Scarlet**  
**1732C Yellow**  
**1732 Maché Mix** Formula blend of yellow, purple, cream, scarlet, orange, rose and red.  
 Prices for Maché colors and mix: Pkt. (10 seeds) \$4.50; 100 seeds \$11.15; 500 seeds \$50.60; 1,000 seeds & over \$76.14 per M.

#### MAGIC™

(6-8 in/15-20 cm) One of the best dwarf types available for potted plant production. Plants do not require growth retardants. Large blooms on short stems. Sow September 15th. Crop time 22-24 weeks. 6 color mix.

**1733A White** **1733 Magic Mix**  
 Prices for Magic White and Mix: Pkt. (10 seeds) \$4.50; 1,000 seeds & over \$113.60 per M.

### STRAWBERRY

**CULTURE:** F1 hybrid. Approx. 44,800 seeds per oz/28 g. Seed can easily be sown by hand or machine in the greenhouse. Sow between Nov. 15 and Jan 31 (like begonias). Plants are day neutral but extra light will speed up croptime on later sowings. Seed starts germinating in 4-7 days at 68-72°F/20-22°C. Cover seeds lightly and keep moist. Transplant 8 weeks later. Grow plants cooler at 60-65°F/15.5-18°C (like onions) to encourage huskier plants. Transplant again into mixed gallon containers or 4 in/20 cm pots 6 weeks later. Croptime (seeding to berries): about 4 months. Fertilize as a vegetable! Use 3-4 plants per hanging basket for summer - long supply of berries. Brix. 8-10%.

**395G Toscana** 120 days. F1 hybrid. Very dark rose bloom perennial. Conical, medium size fruit are produced all summer long. High soluble sugar rate (Brix) of 10%.

**395D Pikan** 120 days. Pastel pink bloom perennial. Everlasting type with medium sized, high sugar fruit. Excellent taste.

**395F Frisan** 120 days. Medium rose pink bloom perennial everlasting type. Medium sized fruit, high sugar taste all summer long.

Prices of above three: Pkt. (15 seeds) \$5.75; 100 seeds \$35.75; 500 seeds \$125.75; 1,000 seeds \$225.00; 5,000 seeds & over \$198.53 per M.

### SPILANTHES

**CULTURE:** 28,000 seeds per oz/28 gr. Sow February 1st for May bedding plants. Germinate at 76°F/24°C for several days. Needs light to germinate. Grow plants at 65-75°F/18-24°C days and 62-65°F/16-18°C nights. Allow 11-12 weeks for finished 4 in/10 cm pots. Pinching encourages earlier branching. Grow pots close together for upright plants. Plants spread 24-30 in/60-76 cm with mounded plant habit in the garden and like sun or partial shade. Filmcoated Seed.

**1412 Peek-A-Boo** (15 in/38 cm) Unique, 1 in/2.5 cm olive shaped yellow flowers with deep burgundy eye on long pendant stems. Bronze/green foliage in full sun. Pkt. (15 seeds) \$4.75; 250 seeds \$49.05; 1,000 seeds & over \$160.60 per M.

### SUCCULENTS

**CULTURE:** Germinate at 65-75°F/18-24°C for 3-4 weeks. For pots and dish gardens. Sow seed from February 15th - April 15th. Seed size is variable.

**1303 Hens and Chickens Mix** Sempervivum. Fleshy leaf rosettes with rose, red or purple tones. Pkt. (150 seeds) \$2.65; 1,000 seeds & over \$7.00 per M.

### TRACHELIUM

**CULTURE:** Small seed is pelleted. Plants are hardy annuals. Germinate at 70°F/21°C for 2 weeks, cover lightly. Sow Oct/Dec like early pansies. Grow plants at 60°F/15°C. Use as an 18 in/45 cm plant in beds or containers.

#### DEVOTION

(18-30 in/45-90 cm) Multi-use plants have elegant foliage with large central 8 in/20 cm bloom and smaller side blooms. Nice fragrance - attracts hummingbirds and butterflies. Mature 30 in/90 cm plants are good cut flowers. Pellets only.

**P1491B Burgundy**  
 Prices for Devotion colors: Pkt. (15 pellets) \$4.25; 100 pellets \$11.10; 250 pellets \$23.45; 1,000 pellets & over \$69.09 per M.



Ranunculus - Maché Mix



PRINTABLE ORDER FORM



## PERENNIALS AND BIENNIALS (See Index - page 3 - for hardiness zones)



### ACHILLEA (Yarrow)



**CULTURE:** Sow April 15th 6 to 8 weeks before sale in paks. Germinate at 68°F/20°C for 10 days. Press seed into soil surface, do not cover. Reduce night soil temperature during germination period. Grow seedlings cool at 60°F/16°C. Plants mature in August/September from seed the first year. Plants bloom June to August. Sold green in paks.

**481 Summer Pastels Mix** (24 in/60 cm) F2 Hybrid. Mix of pink, rose, apricot, cream, red, tan, purple and white. AAS Winner. Pkt. (100 seeds) \$3.40; 500 seeds \$10.00; 1,000 seeds & over \$17.96 per M.



### AGASTACHE



**CULTURE:** 63,000 seeds per oz/28g. Germinate at 70°F/21°C days and 57°F/14°C nights for 7 days. Needs day length of 14 hours to set buds. Plants are very uniform 18 in/45 cm. Use as a cut flower, in containers or the garden. Attracts butterflies and bees, mint scent. Sow January 15th for June to September blooms. Perennial - blooms the first year 5 months from seed.

**595A Golden Jubilee** (20 in/50 cm) Dense lavender blue florets contrast with the unique golden foliage which modulates to lime green on the lower mint fragrant leaves. AAS Winner. Pkt. (15 seeds) \$3.40; 100 seeds \$5.15; 500 seeds \$22.40; 1,000 seeds & over \$34.44 per M.



### ALYSSUM (Aurina)

**CULTURE:** 34,000 seeds per oz/28 g. Sow indoors February 1st for May sales. Prechill seed, 20 days. Grow plants at 50°F/19°C.

**511 Gold Dust** (9 in/23 cm) Popular yellow for spring rock gardens. Blooms May 1st - June 1st. Pkt. (100 seeds) \$2.20; 250 seeds \$3.55; 1,000 seeds & over \$6.04 per M.



### ARABIS (Rock Cress)



**CULTURE:** For green pots sow indoors Jan-Feb 1st. Plants should flower without vernalization, the first year 5 months later. Sow 1-3 seeds per cell in well drained media or soil. Do not cover seed - it needs light to germinate. Germinate 6-12 days @ 65°F/18°C. Maintain transplants or plugs @ 62°F/16°C. Do not over water. Media or soil should be pH 6.0-6.5. Likes sun and partial shade.



### LOTTI



(4-6 in/10-15 cm) Great ground cover for rock gardens. Likes partial sun or semi shaded locations (at least 3 hours of sun per day) in well drained soil. Plants are very compact and spread 6-8 in/15-20 cm with intense deep pink or white color. Requires vernalization for plants to flower (cold fall or winter weather after plants have been transplanted the previous summer or fall). In the north plants flower early next spring with some straw protection from severe frost. In the south at least 8-10 weeks of 35°F/2°C temperatures. Sow late July or early Sept. for late March blooms next year. Coated seed.

**490B White** **490C Deep Rose**  
Pkt. (25 seeds) \$2.70; 250 seeds \$15.10; 1,000 seeds \$25.71.

**490A Snowfix** (5 in/12 cm) Used as a ground cover for rock gardens or as first year flowering extra dwarf perennial for June potted plant sales. Compact plants are covered with tiny satin-white blooms. Pkt (25 seeds) \$2.70; 250 seeds \$16.85; 1,000 seeds & over \$28.77 per M.

### ARENARIA (Sandwort)

**CULTURE:** 22,000 seeds per oz/28 g. Sow indoors February 15th. Germinate at 55-65°F/13-18°C for 20 days. Press seed into soil do not cover. Grow seedlings at 55°F/13°C. Easy to grow. (Zone 4-9).

**607 Montana** (6 in/15 cm) Masses of .25 in/6 mm silky white blooms cover moss like foliage. Pkt. (25 seeds) \$2.20; 250 seeds \$6.40; 1,000 seeds & over \$19.70 per M.



### AQUILEGIA (Columbine)



**CULTURE:** 15,500 seeds per oz/28 g. Sow indoors February 1st - March 15th. Chill seeds at 40°F/4°C for 5 days before sowing. Germinates at 70-80°F/21-27°C soil temp. in 25 days. Do not cover seed. Sow in late May or June for plants that bloom next year.

#### ORIGAMI™

(14 in/35 cm) F1 Hybrid. Blooms first year 24 weeks from seed. Use jumbo 6 in/15 cm pots. Likes partial shade to full sun. Hardy to zone 4.

**592P Blue & White** **592Q Red & White**  
**592S White** **592R Rose & White**  
**592M Origami Mix** Six color mix

Prices for Origami colors & mix: 100 seeds \$16.60; 500 seeds \$71.90; 1,000 seeds & over \$110.63 per M.

**585 Songbird Mix** (12 in/30 cm) Dwarf hybrid blooms first year from seed. Blend of yellow, white, blue and rose/white, blue/white, lavender/white bicolors. 20 seeds \$4.95; 100 seeds \$17.55; 500 seeds \$76.00; 1,000 seeds & over \$116.90 per M.

**591 McKana Giant** (3 ft/90 cm) Large long spurred blooms are born in profusion on the unusually strong plants. Colors include white, cream, rose, yellow, red. Pkt. (100 seeds) \$2.20; 1/8 oz. \$3.75; 1/2 oz. \$14.10; oz. \$28.20.



### ANEMONE (Pasque, Windflower)

**CULTURE:** 10,000 seeds per oz/28 g. Sow indoors February 15th, allow 10 weeks for green pak sales. Press seed into surface. Germinate at 59°F/15°C for 14-21 days. Grow seedlings at 45-54°F/8-12°C. Likes cool climate above 38th parallel.

**478 Pulsatilla Dwarf** (8 in/20 cm) Violet rock garden flowers with yellow centers. Likes partial shade, well drained soil. Pkt. (25 seeds) \$2.20; 1/32 oz. \$5.15; 1/16 oz. \$7.35; 1/2 oz. \$58.80.



### ASCLEPIAS (Butterfly Weed)



**CULTURE:** 3,500 seeds per oz/28 g. Sow indoors from December - March. Plants bloom the first year from June to August. Germinate 70-75°F/21-24°C for 28 days. Leave seed exposed to light or press seed into soil. Grow seedlings at 65°F/18°C. Low maintenance perennial for zones 4-9.

**605 Tuberosa** (30 in/76 cm) Uptumed 3 in/7.5 cm clusters of .75 in/2 cm bright orange shades. Likes full sun. Pkt. (25 seeds) \$2.20; 250 seeds \$9.90; 1,000 seeds & over \$16.86 per M.



### ASTER (Michaelmas Daisy)



**CULTURE:** 22,500 seeds per oz/28 g. Prechill seed for 7 days before sowing. Sow indoors February 15th, press seed into soil, do not cover. Germinate at 65-70°F/18-20°C for 15 days. Grow plants cool at 50°F/10°C Sold green in paks - allow 10-12 weeks from transplant to sale.

**614A Wartburg Star** (24 in/60 cm) Tall dollar size, single, lavender flowers with tufted gold center. Pkt. (100 seeds) \$3.25; 1/16 oz. \$8.10; 1/8 oz. \$13.10; 1/4 oz. \$18.60; 1/2 oz. \$37.20.



### ASTILBE



**CULTURE:** 482,000 seeds per oz/28 g; 1/256 oz 1,000 seeds. Sow June/August. Germinate at 60°F/15°C for 14 days. Press seed into surface, do not cover. Transplant into gallon containers September 1st. Overwinter in cold frames for July/August blooms. Zones 4-8.

**586A Bella** (20 in/50 cm) Fern-like lacy plumes in red, white, rose and lilac. Pkt. (50 seeds) \$2.20; 250 seeds \$6.65; 1,000 seeds & over \$11.38 per M.



### ARMERIA (Thrift)



See potted plants - listed on page 89.



### AUBRIETA



**CULTURE:** 114,000 seeds per oz/28 g. Germinate at 60°F/16°C uniform soil temp. for 20 days. Higher temperatures prevent germination.

**690 Mixed Hybrids** (4 in/10 cm) Resembles a cushion type dianthus. Dense green foliage covered with lavender, rose and lilac blooms. Pkt. (500 seeds) \$2.20; 1/32 oz. \$3.15; 1/4 oz. \$12.15; 1/2 oz. \$24.30.



### BELLIS PERENNIS (English Daisy)

**CULTURE:** 135,000 seeds per oz/28 g. Germinate at alternating 70-80°F/21-27°C soil temp. for about 7 days. Press into soil. Do not cover seed. Sow Dec/Jan or July/Aug. Keep well watered. Grow cool 60-65°F/15-18°C. Mulch in fall. Multiflora doubles replace most grandiflora types due to their improved double flower shape.

**715 Habanera White/Red Tips** (6 in/15 cm) Huge grandiflora double 4 in/10 cm bicolor blooms. 100 seeds \$4.00; 500 seeds \$13.35; 1,000 seeds & over \$16.02 per M.

#### TASSO™

(5 in/12 cm) Greatly improved over pomponette types. Larger Tasso flowers with tight tubular petals have a much better double appearance than grandifloras or pomponettes. Very compact plants have short, strong flower stems that set buds uniformly. Earlier multiflora blooms than Grandifloras, more double and slightly smaller. Biennial.

**670C Strawberries & Cream Bicolor** **670 Mix**  
Prices for Tasso color & mix: 100 seeds \$2.30; 500 seeds \$7.70; 1,000 seeds & over \$9.24 per M.



### BUDDLEYA



**CULTURE:** Sow indoors March 1st for late summer flowers or outdoors 10 days after last spring frost. Germinate at 70°F/21°C for 25 days. Flowers the first season at 15 in/38 cm plant height, matures to 5 ft/2.5 m in the second year.

**602 Violet Butterfly** (5 ft/2.5 m) Violet blue flowers 6 months from seedling. Same species as popular nursery stock item. Fragrant cut flower or flowering shrub. Plants attract butterflies. Pkt. (50 seeds) \$2.15; 250 seeds \$4.70; 1,000 seeds & over \$11.94 per M.



### CANDYTUFT (Iberis)



**CULTURE:** 8,500 seeds per oz/28 g. Blooms during May-June, in sun or partial shade. Germinate cooler at 60°F/16°C for 16 days. Grow plants at 45-50°F/7-10°C. Sow seed March 1st, 10 weeks before spring pot sales. Sow outdoors 6 weeks before last spring frost or first fall frost.

**757 Snow White** (12 in/30 cm) Iberis Sempervirens. Snow white flat umbels on spreading plants. Great for landscaping difficult areas like slopes, steep banks, road sides. A long lasting cut flower. Pkt. (25 seeds) \$2.70; 250 seeds \$6.10; 1,000 seeds & over \$10.40 per M.

**757A Tahoe® Snow White** (8-10 in/20-25 cm) Early to mid spring blooming perennial candytuft. Plants are compact and well branched. Perennial candytuft - Hardy to zone 3. Pkt. (25 seeds) \$2.70; 250 seeds \$18.40; 1,000 seeds & over \$40.34 per M.





Campanula - Champion Pink



Chrysanthemum - Crazy Daisy



Dianthus - Cheddar Pink



Cheiranthus - Allioni



Campanula - Divine Blue



Dianthus - Flava Rose Shades



Coreopsis - Sunray



Centranthus - Pretty Betsy



Catananche - Caerulea

**BERGENIA (Saxifrage)**  

CULTURE: 114,000 seeds per oz/28 g. Sow indoors December - June, allow 3-6 months to produce saleable plants which flower in March/April outdoors. Freeze seed for 72 hrs. before sowing to break dormancy. Germinate at 70°F/21°C for 15 days. Press seed into soil. Grow plants at 58-65°F/14-18°C for 9 weeks. Needs long daylength to flower. Likes partial shade or sun.

**748 Cordifolia** (20 in/50 cm) Easily grown evergreen creeper. Clusters of reddish pendula flowers bloom in spring. For zones 4-9. Pkt. (25 seeds) \$2.70; 250 seeds \$7.85; 1,000 seeds & over \$16.46 per M.

**CARNATION** 

CULTURE: Sow indoors Nov.1st. Seed germinates in about 3 or 4 days at about 55-60°F/13-16°C. Transplant seedlings about Dec.1st into 2.25 in/6 cm peat pots and harden the slower growing plants at 50°F/10°C until they are ready. Blooms June/July. Biennial.

**764 Grenadin Mix** (20 in/50 cm) Formula mix of red, rose, scarlet, white, and yellow. A bushy, base branching plant that flowers on upright pliable stems. Pkt. (200 seeds) \$2.15; 1/8 oz. \$4.40; 1/2 oz. \$12.40; oz. \$19.10.

**CATANANCHE (Cupid's Dart)** 

CULTURE: Approx. 12,000 seeds per oz/28 g. Sow March 15th, cover seeds lightly, germinate at 65°F/18°C for 10 days. Grow plants cool at 60°F/15°C. Sold green in paks about 11-12 weeks from sowing.

**791 Caerulea** (24 in/60 cm) A few smaller blooms in first year - lots of larger blooms in following years. Semi double 2 in/5 cm, light to mid blue papery blooms have unique sculptured overlaid petals. Thin 8 in/20 cm leaves, wiry stems. Blooms Aug/Sept. Pkt. (30 seeds) \$2.65; 1/16 oz. \$6.70; 1/8 oz. \$9.15; 1/4 oz. \$13.80.

**CENTRANTHUS**  

**JUPITER'S BEARD** CULTURE: 17,500 seeds per oz/28 g. Sow Feb. 15th indoors for plants that bloom June to Sept. the first season. Germinate at 60-65°F/15-18°C for 15 days. Press seed into soil. Grow plants at the same temps. Use growth regulator for shorter plants. Needs long daylength to flower the first summer.

**779 Pretty Betsy** (33 in/84 cm) Ruber Coccineus. Free flowering dense carmine red terminal clusters are highly fragrant and provide long lasting cut flowers. Zones 4-9. Pkt. (25 seeds) \$2.15; 250 seeds \$4.10; 1,000 seeds & over \$6.97 per M.

**CERASTIUM**

**SNOW IN SUMMER** CULTURE: 60,000 per oz/28 g. Sow outside May 15th at 65°F/18°C soil temp. for 30 days, thin to 8 in/20 cm apart. Sow indoors Mar. 20th, 7 weeks before spring sales. Grow plants cool at 50°F/10°C. Excellent perennial ground cover.

**778 Silver Carpet** (8 in/20 cm) Tomentosum. Great variety for rock gardens. Mounded ground cover plants provide solid carpets of 3 in/8 cm white flowers with silvery white foliage. Prefers a sunny location and dry soil. Blooms early summer to early fall. Pkt. (250 seeds) \$2.15; 1,000 seeds \$3.71; 5,000 seeds \$1.81 per M.

**CHEIRANTHUS** **ERYSIMUM - SIBERIAN WALLFLOWER**

CULTURE: 14,000 per oz/28 g. Germinate at 70°F/21°C for 10 days, grow plants cooler at 60°F/16°C. Start indoors Mar. 1st or sow direct outdoors May 1st. Fragrant flowers bloom the second year.

**793 Allioni** (12 in/30 cm) Brilliant orange. Adapted for massing or borders. Blooms May/June. Pkt. (300 seeds) \$2.15; 1/4 oz. \$3.15; 1/2 oz. \$4.50; oz. \$9.00.

**CAMPANULA** 

CULTURE: 198,000 seeds per oz/28 g. F1 hybrid. Recommended as a first year blooming 24 in/61 cm biennial cut flower. Attractive bell shaped flowers do not have saucers and last for 15 days after cutting. Strong multi stem branching plant. Sow Dec/Jan like pansies for June blooms. Germinate at 70°F/21°C for 14 days. Pelleted seed.

**P743J Champion Blue** **P743K Champion Pink**  
Prices of Champion colors: Pkt. (10 seeds) \$3.65; 100 seeds \$10.85; 1,000 seeds & over \$72.78 per M.

**736 Cup & Saucer Canterbury Bell Mix** (2 1/2 ft/76 cm). Calycanthema. Bell-shaped flowers with a flat base or saucer, rose, white rose, white and blue. 120,000 seeds per oz/28 g. Pkt. (100 seeds) \$2.15; 1/4 oz. \$8.30; oz. \$33.20.

**CAMPANULA CARPATICA**

CULTURE: Seed size varies: 320,000-400,000 seeds per oz/28 g. Sow indoors in greenhouse, Dec/Jan. like pansies for April blooms. Sow tiny seeds 1/16-1/8 in/1.5-3 mm deep in rows. Press seed into soil, but do not cover as seeds need light to germinate. Germinate at 65-72°F/18-22°C for 14 to 30 days. Transplant seedlings about 30 days after germination into 3-4 in/8-10 cm pots or paks in groups of 3-5 seedlings per pot - from Feb. until June. Grow at 55-60°F/13-15°C air temps, in loose, well-drained, slightly alkaline compost. Plants are daylength sensitive. To force early spring crops into flower, allow 12-14 weeks and use supplemental light for 18 hours per day at 40W per sq. meter. Plants are usually sold green in the spring or fall. Crop time 4-5 months. Natural flowering time July-Sept (24 weeks from seed). Hardiness zones 3-8. Excellent rock garden perennial for sun or partial shade. Transplant outdoors in late May. Pests and Diseases: Powdery Mildew, Rust, Thrips & Mites.

**DIVINE**

Hybrid (7-10 in/18-24 cm) Bushier, heavier flowering plants than Clips. Allow 20-25 weeks plus 14-16 hour days for flowers. Plants remain vegetative under short daylength.

**732A Blue** Pkt. (10 seeds) \$2.65; 100 seeds \$9.50; 1,000 seeds & over \$63.64 per M.

**CLIPS**

Hybrid (7 1/2 in/20 cm) Plants produce masses of upright bell blooms without saucers, for borders. Sow Dec/January like Pansies for March/April blooms.

**742A Blue** **742D Deep Blue**  
**742B White**

Prices for Clip colors: Pkt. (25 seeds) \$2.70; 250 seeds \$6.95; 1,000 seeds & over \$11.84 per M.

**CHRYSANthemUM** **LEUCANTHEMUM - SHASTA DAISY**

CULTURE: 21,000 seeds per oz/28 g Sow January 15 - February 15th for perennial plant sales in May. Germinate at 60-65°F/16-18°C (no higher) for 20 days. Do not cover seed. Lower night temperatures to 50°F/10°C for best results. Grow plants cool. Use dwarf types for pots.

**853 Crazy Daisy** (24 in/60 cm) Large white shaggy, quilled, double flowers with yellow eyes, average 2.5 in/6.5 cm across. Blooms June/July the second year. For backgrounds or cutting. Pkt. (25 seeds) \$2.15; 250 seeds \$4.10; 1,000 seeds & over \$6.95 per M.

**850 Alaska Leucanthemum Maximum** (32 in/80 cm) Large white single daisy bloom. Pkt. (400 seeds) \$2.15; 1/4 oz. \$3.85; 1/2 oz. \$6.45; oz. \$10.15.

**1260 Robinson's Giant Single Mix** (30 in/76 cm) Perennial Painted Daisy - see Pyrethrum. Pkt. (250 seeds) \$2.20; 1/16 oz. \$3.35; 1/4 oz. \$8.70; 1/2 oz. \$16.10; oz. \$24.75.

**846 Snow Lady** (10 in/25 cm) F1 hybrid. Dwarf Shasta. For 4 in/10 cm pots. Blooms first year. Pkt. (25 seeds) \$3.55; 250 seeds \$12.90; 1,000 seeds & over \$41.11 per M.

**CENTAUREA** 

CULTURE: 1,200 per oz/28 g. Sow outside May 1st at 60°F/16°C soil temp. maximum. in total darkness for 30 days. Germinates irregularly. Thin to 16 in/41 cm apart. Sow indoors Jan/Feb.

**794 Montana** (2 ft/60 cm) Large blue cornflower - like blooms. Blooms 3 in/18 cm May/July. Pkt. (25 seeds) \$2.65; 250 seeds \$6.70; 1,000 seeds & over \$12.85 per M.

**COREOPSIS**  

CULTURE: 11,000 seeds per oz/28 g. Sow during the early spring for perennial sales. Sow outdoors anytime from April to June. Self-seeds easily, once established. Divide older plants. Plants thrive in full sun from June to August.

**671A Rising Sun** (20-36 in/50-90 cm) Double 2 in/5 cm gold/mahogany blooms - 85 days. Pkt. (25 seeds) \$2.40; 250 seeds \$8.25; 1,000 seeds & over \$24.23 per M.

**730B Heliot® Golden Yellow** (24 in/61 cm). A full-bodied plant showcasing vivid golden yellow flowers with a crimson center ring. Hardy zones 5-10.

**730C Santa Fe® Yellow** (18-24 in/45-61 cm). First year flowering perennial, hardy to zone 5-10. Excellent branching gives exceptional pot fill. Long blooming with pure yellow flowers.

Prices of above two: Pkt. (25 seeds) \$2.40; 250 seeds \$7.05; 1,000 seeds & over \$12.72 per M.

**731 Early Sunrise** (18 in/46 cm) Bright yellow, fully double, 2 in/5 cm flowers. Blooms in paks 85 days from sowing. AAS Winner. Pkt. (25 seeds) \$2.40; 250 seeds \$8.75; 1,000 seeds & over \$14.89 per M.

**732 Sunray** (20 in/50 cm) Double gold blooms on dwarf plants. Blooms first year. Pkt. (100 seeds) \$2.15; 1/16 oz. \$9.00; 1/8 oz \$15.80; 1/4 oz. \$29.40; oz. \$84.05.

**DIANTHUS** 

CULTURE: Freeze seeds 14 days before planting. Sow February 1st indoors at 65-75°F/18-24°C. Arctic Fire blooms first year from seed; others bloom next summer. Sow outdoors late fall for spring germination. For Dianthus Barbatus see Sweet William. Use new Barbatus x Chinesis hybrids on page 14 for first year blooming biennials.

**NEW 880C Flava Rose Shades** (12 in/30 cm) Crop time 11-13 weeks, blooms first year. For rock gardens or pots. Blooms from May all summer long. Pink/rose eye fragrant single cheddar pink. Pkt. (25 seeds) \$2.85; 250 seeds \$11.30; 1,000 seeds & over \$19.28 per M.

**878A Arctic Fire** (8 in/20 cm) Deltoides. White with bright red eye. Blooms the first year. Pkt. (100 seeds) \$2.70; 1,000 seeds & over \$15.27 per M.

**880B Cheddar Pink** (8 in/20 cm) Tufted evergreen type foliage forms a dense carpet. Small single .5 in/1 cm deep rose pink, fragrant flowers will bloom all summer. 20,000 seeds per oz/28 g. Pkt. (25 seeds) \$2.75; 250 seeds \$7.50; 1,000 seeds & over \$12.82 per M.

**880 Ballad Blend** (12 in/30 cm) Plumarius. Fully double. Blooms are large, laciniated in a full color range & darker centers. Drought tolerant, hardy zones 3-9. Pkt. (100 seeds) \$2.15; 1/16 oz. \$4.60; 1/4 oz. \$14.90; oz. \$42.50.

**880A Spring Beauty Mix** (16 in/40 cm) Plumarius Blend of "Cottage Pinks". Double flowers in rose, salmon, pink and white (Garden pinks). Pkt. (25 seeds) \$2.15; 250 seeds \$2.75; 1,000 seeds & over \$4.21 per M.





Echinacea - Cheyenne Spirit



Gaillardia - Arizona Sun



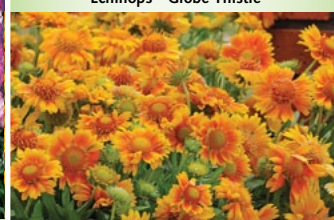
Gaura - Sparkle White



Delphinium - Benary's Pacific Mix



Echinops - Globe Thistle



Gaillardia - Mesa Peach



Foxglove - Camelot Mix



## DELPHINIUM



**CULTURE:** 10,000-18,000 seeds per oz/28 g. Freeze seed for 24 hrs. before sowing. Sow outdoors August 20th. Do not pinch plants. Add lime to soil each year. **GREENHOUSE:** Sow indoors from Jan-Feb. 15th for spring sales. Germinate in cool sand at 54°F/12°C for 20 days. High soil temperatures will prevent germination. Grow seedlings at 60°F/16°C days, 50°F/10°C nights. Stake tall plants in windy areas.

### SUMMER

(10-12 in/28-32 cm) Flowers cover lacy leaves. Compact, well branched extra dwarf plant well suited as pot crop or in mixed containers. Blooms earlier with more heat tolerance than other delphiniums. Can be grown as an annual. First year blooming perennial.



**877C Morning Pink**



**877D Stars White**

**877A Blues Sky blue**

**877B Nights Deep blue**

Prices for Summer colors: Pkt (25 seeds) \$2.85; 250 seeds \$11.15; 1,000 seeds & over \$35.59 per M.

### MAGIC FOUNTAINS

(30-36 in/75-90 cm) Dwarf, wind tolerant. For cutting or containers. Blooms first year.

**868B Dark Blue/white bee**

**868E Pink/white bee**

**868F Sky Blue/white bee**

**868H Cherry Blossom**

Prices for Magic Fountains colors & mix: Pkt. (50 seeds) \$3.75; 250 seeds \$10.95; 1,000 seeds & over \$18.65 per M

### GUARDIAN

(30-39 in/76-99 cm) An F1 hybrid breeding breakthrough. Uniform blooming plants are highly programmable - just like hybrid snaps or lisianthus. Excellent bloom production during short days for the cut flower market. Better than O/P's for greenhouse, high plastic tunnels or field production. Thinner, stronger stems provide good post harvest handling. Blooms 6 weeks faster than O/P's. Harvest at 1/3 spike color.

**1907A Blue**

**1907B Lavender**

**1907C White**

**1907 Guardian Mix** Blend of Guardian colors

Prices for Guardian colors & mix: 25 seeds \$4.50; 250 seeds \$41.85; 1,000 seeds & over \$120.49 per M.

### TALL PACIFIC STRAIN (ELATUM)

**856 Pacific Giants Mix** (4 ft/122 cm) Formula blend of plain and bicolors including dark violet, blue, rose shades, violet. Standard tall strain for cutting and plant sales. Best grown in well drained sandy soil. 10,000-13,000 seeds per oz/28 g. Plants bloom second year. Pkt. (25 seeds) \$2.15; 250 seeds \$11.15; 1,000 seeds & over \$19.04 per M.

### BENARY'S PACIFIC

(5 ft/153 cm) A major improvement on the PACIFIC primary separate colors. Plants bloom the first year from a December greenhouse sowing, without vernalization. Cromptime 12 weeks for green plants; flowering containers 16 weeks; cut flower production 1-2 years.

**1740D Astolat** Raspberry rose & pink/dark bee

**1740A Black Knight** Deep violet

**1740B Galahad** Clear white

**1740F Guinevere** Lavender pink

**1740G King Arthur** Violet/white bee

**1740J Percival** White/black bee

**1740H Summer Skies** Light blue

**1740C Mix** Seven color blend

Prices for Benary's Pacific colors & mix: Pkt. (25 seeds) \$3.35; 250 seeds \$10.85; 1,000 seeds & over \$18.51 per M.



## DORONICUM

**CULTURE:** 35,000 per oz/28 g. Sow February 1st for spring transplants. Alternate between 50°F/10°C and 60°F/16°C soil temp for 14 days, in complete darkness. Sow outside April 1st. Space 16 in/40 cm apart.

**891 Caucasicum Magnificent** (16 in/40 cm) Leopard's bane. Hardy annual. Large daisy-like blooms resemble yellow gerbera. Long, strong stems. Continuous harvest; great cut flower. Pkt. (150 seeds) \$2.15; 1/16 oz. \$6.90; 1/8 oz. \$11.85; 1/4 oz. \$18.20.



## ECHINACEA (Rudbeckia)



**CULTURE:** 10,000 seeds per oz/28 g. Sow in rows or clumps outdoors in early May for fall bloom. Sow indoors March 15th for August blooms. Plants flower 16 weeks after seeding. Germinate at 70°F/21°C, 15-20 days. A good cut flower. Drought tolerant, hardy zones 3-9.

**903C Cheyenne Spirit** (22 in/55cm) More blooms per plant - blooms first year from seed. Shades of red, orange, cream, purple, yellow and scarlet. Use gallon containers. Fleuroselect & AAS Winner. Pkt. (10 seeds) \$6.75; 100 seeds \$63.25; 1,000 seeds & over \$392.15 per M.

**903W PowWow Wild Berry** (16 in/40 cm) More flowers per plant. Blooms first year from seed. Unique neon rose color. AAS Winner. Pkt. (10 seeds) \$4.75; 100 seeds \$36.65; 1,000 seeds & over \$169.88 per M.

**903A Bright Star** (18 in/46 cm) Lavender-pink, single gloriosa type 3 in/8 cm blooms. Pkt. (25 seeds) \$2.75; 250 seeds \$7.20; 1,000 seeds & over \$12.29 per M.

**903 White Swan** (28 in/70 cm) Large single 4 in/10 cm blooms have yellow centers. Pkt. (75 seeds) \$2.15; 1/16 oz. \$5.75; 1/8 oz. \$10.15; 1/4 oz. \$19.00.

**903B Prairie Splendor Purple** (24 in/60 cm) Blooms 3 weeks earlier than Bright Star. Extra large deep rose blooms like full sun. Plants bloom first year from seed from mid summer until fall. Pkt. (25 seeds) \$3.25; 250 seeds \$29.65; 1,000 seeds & over \$50.58 per M.



## ECHINOPS (Globe Thistle)

**CULTURE:** 2,100 seeds per oz/28 g. Sow indoors March 1st, germinate at 68°-75°F/21°-27°C for 20 days. Press seed into soil, do not cover (needs light to sprout). Grow plants cool at 50°F/10°C. Dried flower. Blooms July/August.

**912 Globe Thistle** (24 in/60 cm) Metallic blue thistles, upright plant. Good everlasting. Pkt. (25 seeds) \$2.15; 250 seeds \$6.10; 1,000 seeds & over \$10.40 per M.



## ERIGERON (Spanish Daisy)



**CULTURE:** 1/256 oz contains 1,600 seeds. Sow February 1st - March 1st for spring baskets; plants flower 90 days from sowing. Germinate at 59°-64°F/15°-18°C for 7 days. Transplant 6 weeks later.

**907 Profusion** (spreads 12 in/30 cm) Erigeron species -small .75 in/2 cm single white daisy blooms cascade by the hundreds on each plant. Great for hanging baskets or rock gardens. Pkt. (50 seeds) \$2.15; 250 seeds \$3.80; 1,000 seeds & over \$6.50 per M.

**907S Stallone** (6-8 in/15-20 cm) An excellent spreading dwarf ground cover. Pretty two-toned single blooms mature white to pink. Also use for hanging baskets. Very durable, long flowering plant. Seed germinates in about 2 weeks - do not cover seeds. Use 4 seeds per plug. Maintain in plugs or transplants for 6-7 weeks. Mature plants in 10 weeks. Hardy through zones 5-8 only. Pkt. (50 seeds) \$2.15; 250 seeds \$3.25; 1,000 seeds & over \$5.70 per M.



## EUCALYPTUS (Cinerea)



**CULTURE:** 42,000 seeds per oz/28 g. Tender perennial, hardy to only 25°F/-4°C in zones 9-11. Grow as an annual in the north. Sow Feb. 15th for May pot sales. Germinate at 70°F/21°C for 14 days in a warm, humid area. Reduce temp to 45°F/8°C for 7 days until seeds sprout. Grow plants cool.

**1530 Silver Dollar** (3 ft/1m) Round silvery blue-green leaves appear to be strung on stems. Pkt. (25 seeds) \$2.40; 250 seeds \$9.90; 1,000 seeds & over \$32.68 per M.



## FOXGLOVE (Digitalis)

**CULTURE:** 130,000 seeds per oz/28 g. (seed size varies). Sow indoors Feb. 1st for May sales. Germinate @ 70°F/21°C soil temp. for 7 days. Press seed into surface. Grow plants cool at 50-60°F/10-15°C for 7 weeks. Divide plants in spring. Biennial.

**P1540 Camelot™ Mix** (3.5 ft/1m) F1 hybrid. Blooms first year, very uniform - huge tubular florets with speckled throats. Rose, cream, lavender, white. Pellets only. Pkt. (20 seeds) \$2.75; 100 seeds \$11.70; 500 seeds \$35.05; 1,000 seeds & over \$53.86 per M.

**887 Foxy** (2.5 ft/76 cm) Blooms first year from seed. Grow as an annual - plant is a hardy biennial. Nice blend of lavender, cream, yellow, pink, magenta. Pkt. (200 seeds) \$2.15; 1/16 oz. \$5.55; 1/4 oz. \$12.30; 1/2 oz. \$21.40.



## GAILLARDIA



**CULTURE:** 10,000 per oz/28 g. Sow anytime from April to August. Germinate at 80°F/27°C soil temp. for 21 days. Needs full sun. Blooms June/November. Crop time for Arizona and F1 hybrid Mesa types is about 7-10 weeks from transplant.



**922P Mesa Peach** (16 in/40 cm) Bicolor peach and red. First year blooming perennial. AAS Winner. Pkt. (25 seeds) \$4.35; 250 seeds \$24.60; 1,000 seeds \$75.50.

**922F Arizona Sun** (12 in/30 cm) Huge 3.5 in/9 cm single red and yellow, bicolor flowers. Blooms first year. AAS Winner. Pkt. (25 seeds) \$2.85; 100 seeds \$8.65; 500 seeds \$25.90; 1,000 seeds and over \$39.77 per M.

**922G Arizona Red Shades** (12 in/30 cm) Early summer-fall flowering deep crimson dwarf plant for gallon containers. Hardiness zones 2-10. Pkt. (25 seeds) \$2.85; 250 seeds \$21.15; 1,000 seeds and over \$39.77 per M.

**922H Arizona Apricot** (12 in/30 cm) Pure apricot, first year flowering perennial. AAS Winner. Pkt. (25 seeds) \$2.85; 250 seeds \$21.15; 1,000 seeds and over \$39.77 per M.

**922Y Mesa Yellow** (16 in/40 cm) F1 hybrid yellow that blooms from seed in the first year. Well branched upright plants. Drought tolerant. Use 4 in/10 cm pots or gal. containers. AAS Winner. Pkt. (25 seeds) \$4.35; 250 seeds \$24.60; 1,000 seeds and over \$75.50 per M.

**922X Mesa Bright Bicolor** (16 in/40 cm) F1 hybrid first year flowering bicolor gold/scarlet ring - non fading color. Pkt. (25 seeds) \$4.35; 250 seeds \$40.15; 1,000 seeds & over \$75.50 per M.



## GAURA

Early blooming, compact, free flowering perennial blooms the first year from a January sowing. Easy to grow no pinching necessary. Sell in 4-6 in/10-15 cm pots. Crop time 12-14 weeks (sowing to flower). Blooms 5 weeks from transplants. Unique flower. Use in containers or as a bedding plant. Very drought tolerant. 2014 AAS Winner. Germinate at suggested temp of 65-68°F. Garden height is 20 in/50 cm - spreads 12 in/20 cm. Likes full sun. Approx. 1,820 seeds per oz/65 seeds per gram.



**1555 Sparkle White** Mounded compact plants with single 3.5 in/8.5 cm white flowers with a pink blush. Flowers June to Sept. Makes great borders. Pkt. (100 seeds) \$7.75; 1,000 seeds & over \$74.55 per M.



### Pricing Quantities

M = 1,000 Seeds or Pellets.



## PRINTABLE ORDER FORM

Stokes Seeds Inc.



Lobelia - Compliment Mix



Hibiscus - Luna Pink Swirl



Lavender - Mini Blue



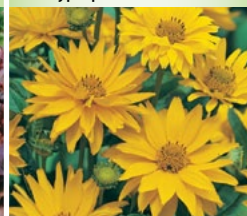
Lunaria - Biennis Alba



Heuchera - Melting Fire



Gypsophila - Filou Rose



Heliopsis - Summer Sun



Lychnis - Maltese Cross



Liatris - Kobold Spicata



Lupins - Gallery Mix



## GEUM

CULTURE: 7,000 per oz/28 g. Sow indoors Feb. 15th for May sales in 2 1/4 in/6 cm peat pots. Sow outdoors in May for bloom next June and July. Germinate at 70°F/21°C soil temp. for 28 days.

**933 Lady Stratheden** (24 in/60 cm) Double golden yellow. Pkt. (25 seeds) \$2.15; 250 seeds \$5.40; 1,000 seeds & over \$9.17 per M.

**934 Mrs. Bradshaw Improved** (2 ft/60 cm) Brilliant scarlet double flowers Pkt. (25 seeds) \$2.40; 250 seeds \$4.05; 1,000 seeds & over \$6.92 per M.

**933K Koi** (8 in/20 cm) Glossy green foliage, bright orange blooms. Crop time 22 wks. Pkt. (50 seeds) \$3.95; 250 seeds \$17.15; 1,000 seeds & over \$50.89 per M.



## GYPSOPHILA



CULTURE: 34,000 per oz/28 g. Sow from May 1st until July 15th outdoors in beds 2 ft/60 cm apart. Germinate at 60°F/16°C soil temp. (shade summer sowings). Makes only 50% doubles from seed.

**960 Paniculata Double White** (3 ft/90 cm) Single and semi-double pure white flowers on long graceful sprays. Pkt. (500 seeds) \$2.85; 1/16 oz. \$5.00; 1/4 oz. \$17.00; 1/2 oz. \$29.80.

### FILOU

(6 in/15 cm) Compact Repens that blooms first year from seed. Crop time 15 weeks. Bushy plants for rock gardens, borders, containers.

**962A Filou Rose**

**962B Filou White**

Prices for Filou colors: Pkt. (50 seeds) \$1.90; 250 seeds \$4.80; 1,000 seeds & over \$8.22 per M.



## HELIOPSIS (False Sunflower)

CULTURE: 5,600 seeds per oz/28 g. Sow indoors Feb.1, outdoors May 1st. Germinate at 65-70°F/18-20°C for 10-18 days. Press seed into soil surface (needs light to germinate) do not cover. Blooms July-Sept.

**984 Summer Sun** (47 in/120 cm) Double 4 in/10 cm, golden daisy-like flowers on strong stems. Pkt. (100 seeds) \$2.15; 1/4 oz. \$7.90; 1/2 oz. \$14.65; oz. \$22.55.



## HESPERIS (Sweet Rocket)



CULTURE: 14,000 seeds per oz/28 g. Sow indoors Feb.15 for spring green pak sales. Germinate at 75°F/24°C day temps. for 10 days. Grow plants at 60°F/16°C. This is now classified as a noxious weed in Colorado.

**969 Matronalis Violet** (32 in/81 cm) Fragrant perennial cut flower. Clusters of purple blooms on single spikes. Pkt. (50 seeds) \$2.15; 1/4 oz. \$3.25; oz. \$4.75.



## HEUCHERA (Coral Bells)



CULTURE: 900,000 per oz/28 g. Sow indoors thinly March 1st, transplant in groups of 3 or 4 seedlings per pot. Sow outdoors, May 1st for blooms next May and June. For rock gardens and cutting.

**P983M Melting Fire** (18 in/45 cm) Matures bright red curled leaves and coral florets. Crop time 20 weeks for pots. Pkt. (50 pellets) \$3.50; 250 pellets \$15.70; 1,000 pellets & over \$35.69 per M.



### U.S. Protected Variety

**PVP**

*Seed must not be reproduced for sale without permission of the originator.*



## HOLLYHOCK (Althaea)

CULTURE: 3,000 seeds per oz/28 g. Sow March 1st for perennial sales. Germinate 20 days in 60°F/16°C soil (higher temp. limits germ). Sow outdoors May-July. Space 12 in/30 cm apart. Blooms late June.

**990 Chaters Double Triumph Mix** (7 ft/2.13 m) Fully double. Rose, salmon, red, buff, yellow, maroon, white, scarlet. Pkt. (35 seeds) \$2.15; 1/4 oz. \$5.00; 1/2 oz. \$8.55; oz. \$13.40.



## HYBRID HIBISCUS



### LUNA

(2-3 ft/60-90 cm) 2,835 seeds per oz/28 g. Flowers first year, 16 weeks from sowing. Seed should germinate in 5 days. Sow February 1st at 70°F/21°C, cover seed lightly. Grow plants at 68°F/20°C - needs 12 hours of light per day for flowering to begin. Does not need pinching. Plants like full sun and spread 2 ft/60 cm. Makes a nice neat hedge with multiple blooms. Hardy to zone 5 (-20°F/-29°C). Impressive 6-8 in/15-20 cm blooms on bushy, well branched plants. Responsive to growth regulators.

**1865C Red**

**1865D Rose**

**1865E White**

Prices for Luna: Pkt. (10 seeds) \$6.75; 100 seeds \$58.70; 500 seeds \$275.10; 1,000 seeds & over \$462.18 per M.

**1865B Luna Pink Swirl** 250 seeds \$146.70; 500 seeds \$275.10; 1,000 seeds and over \$462.18 per M.

**965 Southern Belle Mix** (5 ft/1.52 m) Early flowering hibiscus which produces huge 10 in/25 cm blooms. The mixture contains red, rose pink, white and light pink. Crowth time 5 months. Germ. time 20 days. AAS Winner. Pkt. (10 seeds) \$3.75; 100 seeds \$21.45; 500 seeds \$100.45; 1,000 seeds & over \$168.78 per M.



## LATHYRUS (Hardy Sweet Pea)

CULTURE: 600 seeds per oz/28 g. Sow indoors in peat pots March/April, or outdoors in May. Germinate cool at 60°F/15°C for 14 days. Grow cool. Blooms May/June.

**1030 Perennial Sweet Pea Mix** (3 ft/91 cm) A hardy vine to cover stumps and fences in red, rose and white colors. Pkt. (200 seeds) \$2.20; 1/4 oz. \$5.20; oz. \$13.85; 1/4 lb. \$55.40; lb. \$221.60.



## LAVENDER



In Europe there are hundreds of special strains of Lavender. Various shades from dark blue to pale lavender, various plant heights and aroma intensities. Lavender is a **tender perennial** and should survive in areas that do not drop below -20° to -10°F/-29° to -12°C during the winter months. Although it's major use in Europe is for dried flower production and the manufacturing of perfumes, in North America it is mainly used as a pot plant for bedding plant sales. CULTURE: Sow indoors in early April or outdoors April 15 - May 15th. Germinate @ 45-60°F/7-16°C for 4 or 5 days. Pre-chill seed for 24 hours before sowing. Press seed into the soil surface, do not cover - it needs light to germinate. Plug production will take 6-8 weeks. Transplant after 30 days into 4 in/10 cm pots - grow @ 60°F/15°C days and 52°F/9.5°C nights. Blooms late June to August. Protect plants with straw where winters are severe.

**165K Mini Blue** (10 in/25 cm) First year flowering type. Bred for largescale, overwintered pot plant production. Strong stemmed, spreading plants produce lots of short dark blue flower spikes on rich, grey-green foliage. Good cold & foliage disease tolerances. Compact, well branched plants do not need trimming and ship to market in pots very well. Pkt (25 seeds) \$2.40; 100 seeds \$8.35; 1,000 seeds & over \$32.21 per M.

**165B Lavender Munstead Strain** (12 in/30 cm) Special dark blue dwarf strain with very fragrant blooms for bedding plants. Pkt. (100 seeds) \$2.20; 1/16 oz \$12.30; 1/4 oz. \$39.05; oz. \$98.40; 1/4 lb. \$393.60; lb. \$1,574.40.



## LIATRIS (Blazing Star)

CULTURE: 9,400 seeds per oz. Sow indoors March 1st, germinate at 70°F/21°C days (43°F/6°C nights) for 21 days. Press seed into soil, do not cover. Blooms July/August. This is NOT Purple Loosestrife!

**967 Spicata Kobold** (28 in/70 cm). Rose pink "pipe cleaner" shaped spikes on waxy dark green grass-like foliage. A great cut flower. Pkt. (50 seeds) \$2.45; 1/8 oz. \$4.65; 1/4 oz. \$6.45; 1/2 oz. \$12.90; oz. \$25.80.



## LINUM (Flax)



CULTURE: 21,000 seeds per oz/28 g. Sow outdoors from April 15 to July 1. Plants may not survive severe winters. Seeds dropped by mature plants will germinate the following spring. Plants flower May to August.

**1045 Perenne** (18 in/46 cm) Sky blue. Slender, dainty plants, single flower. Pkt. (220 seeds) \$2.20; 1/4 oz. \$3.20; oz. \$7.05; 1/4 lb. \$28.20.



## LOBELIA (Cardinalis)



CULTURE: 850,000 seeds per oz. Sow indoors in February. Germinate at 60°F/16°C for 20 days.

### COMPLIMENT SERIES

(30 in/75 cm) F1 hybrid. A hardy annual that will overwinter if protected. Flowers July - Sept.

**1041D Deep Red**

**1041 Compliment Mix**

Prices for Compliment red & mix: Pkt. (25 seeds) \$3.65; 500 seeds \$42.40; 1,000 seeds & over \$60.66 per M.



## LUNARIA (Silver Dollar)

CULTURE: 1,500 seeds per oz/28 g. Sow in July to produce flat silvery seed pods the second year. Sow indoors April 1st at 70°F/21°C for 20 days. Flowers July-Sept.

**964 Biennis Alba** (3 ft/91 cm) Silver seeded pod pouches do not appear until 2nd year. They are cut and dried. Pkt. (50 seeds) \$2.20; 1/4 oz. \$3.95; oz. \$5.20.



## LUPINS

CULTURE: 1,200-1,500 seeds per oz/28 g. Freeze seed for 48 hrs., then soak seed for 24 hrs. in a damp newspaper. Sow indoors in peat pots February 15 - March 1st germinate (and grow) at 54°F/12°C (cool like peas) for 20 days. Blooms May/June.

### GALLERY®

(20 in/50 cm) Best dwarf strain of lupins for gallon or quart containers, perennials or wind tolerant commercial cut flowers. Full 6 in/15 cm flower spikes. Filmcoated seed.

**1047A White**

**1047B Blue/White**

**1047C Yellow**

**1047D Rose/White**

**1047E Red/White**

**1047 Mix**

Prices for Gallery colors & mix: Pkt. (40 seeds) \$3.35; 500 seeds \$33.70; 1,000 seeds & over \$48.22 per M.



## LYCHNIS (Maltese Cross)

CULTURE: 50,000 seeds per oz/28 g. Sow indoors March 1st, prechill seed at 35°F/2°C. Sow at 70°F/21°C for 21 days. Press seed into soil, expose seed to light (do not cover). Grow plants cool at 65°F/18°C. Flowers June/August. Sow outdoors in Aug.

**970 Maltese Cross** (40 in/100 cm) Scarlet orange clusters of flowers are held well above foliage. Good cut flower, likes dry soil. Pkt. (50 seeds) \$2.20; oz. \$10.15.





Robinsons Giant



Penstemon - Electric Blue



Physostegia - White



Myosotis - Alpestris Blue Ball



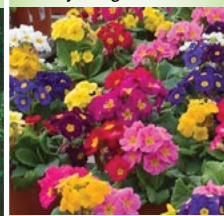
Poppy - Spring Fever Mix



Wonderland Mix



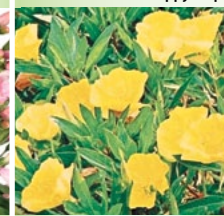
Pampas Grass - White



Primula - SuperNova Mix



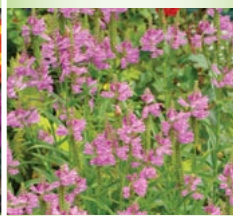
Penstemon - Light Rose Shades



Oenothera - Sun Drops



Primula - Orion Mix



Physostegia - Rose

## MONARDA (Bee Balm)

CULTURE: 56,000 seeds per oz/28 g. Germinate at 60°F/16°C for 21 days, press seed into soil. Sow indoors February 15th. Sow outdoors spring or fall.

**914 Panorama Mix** (30 in/76 cm) Scarlet, pink, salmon and red 2 in/5 cm round, shaggy, semi double blooms. Blooms July/August. Leaves have mint aroma. Likes moist semi shaded soil. Pkt. (25 seeds) \$2.35; 250 seeds \$7.90; 1,000 seeds & over \$13.45 per M.

## MYOSOTIS (Forget-Me-Not)

CULTURE: 42,000 per oz/28 g. Sow outdoors June - August for blooms a year later. Year old field grown plants may stress in a hot early spring, becoming ragged, tall, overmature and discolored. GREENHOUSE: Sow December - January. Culture similar to pansy but not as hardy. Germinate in 54°F/12°C soil (no higher) for 10 days, in total darkness. Prefers moist location. 6-8 weeks from seed to sale in paks green. Excellent dwarf perennial shade plant for cutting. Blooms April to June.

**916 Alpestris Blue Ball Ultramarine Strain** (8 in/20 cm) A special European strain for florist pots, greenhouse grown, formal bedding plant. Compact, ball shaped plants with masses of rich indigo blue flowers. Pkt. (300 seeds) \$2.55; 1/16 oz. \$9.85; 1/8 oz. \$15.55; oz. \$95.85.

### VICTORIA

(8 in/20 cm) For home gardeners only.

**917A Victoria Rose**      **917B Victoria White**

Prices for Victoria Rose & White: Pkt. (300 seeds) \$1.85; 1,000 seeds & over \$2.15 per M.

## OENOTHERA (Evening Primrose)

CULTURE: 5,000 seeds per oz/28 g. Sow indoors January - February, 7-10 weeks before sale in paks. Chill seed 14 days before sowing. Germinate seed, alternating warmer day (75°F/24°C) and cooler night (60°F/15°C) soil temperatures for 14 days. Blooms June to August. Trailing plant habit.

**1270C Missouriensis - Sun Drops** (12 in/30 cm) Ground cover. Large 3 in/7.5 cm single Poppy-like, lemon yellow blooms cover compact plants. Pkt. (50 seeds) \$2.20; 250 seeds \$4.35; 1,000 seeds & over \$7.45 per M.

## PAMPAS GRASS (Cortaderia)

CULTURE: 130,000 seeds per oz/28 g. Sow February 15th indoors. Germinate at 65°F/18°C for 4 weeks. Should be cut back and straw protected in harsh climates.

**915A Cortaderia Pink** (10 ft/3 m) Ornamental type grass, long light pink plumes.

**915 Cortaderia White** (10 ft/3 m) Ornamental type grass, long silver white plumes.

Prices for Cortaderia Pink & White: Pkt. (25 seeds) \$2.20; 1,000 seeds & over \$4.73 per M.

## PHYSOSTEGIA (Obedience Plant)

CULTURE: 14,000 seeds per oz/28 g. Sow indoors February 15th, press seed into soil, expose to light. Germinate at 70°F/21°C days, 60°F/15°C nights for 14 days. Irregular germination. Allow 8 weeks from transplants to paks.

**971B Virginiana Rose** (22 in/56 cm) Snap bloom

**971A Virginiana White** (22 in/56 cm) Snap bloom

Prices for Virginiana Rose & White: Pkt. (25 seeds) \$3.15; 250 seeds \$17.05; 1,000 seeds & over \$29.08 per M.

## PENSTEMON (Beard Tongue)

CULTURE: 39,000 seeds per oz/28 g. Sow indoors March 1st, like Snapdragons. Freeze seed for 10 days before sowing. Germinate at 60°F/16°C for 20 days. Grow plants cool. Plants flower 14 weeks from seed. Blooms first year.

**902 Rondo** (12 in/30 cm) Dwarf barbatus, hardy perennial, used for borders, rock gardens and cuts. Better colors than Skyline, also more frost and wind tolerant, many colors. Likes sandy, cool area. Pkt. (50 seeds) \$2.30; 1/16 oz. \$5.35; 1/4 oz. \$17.10; 1/2 oz. \$34.20.

**902A Electric Blue** (18 in/45 cm) Pkt. (25 seeds) \$3.50; 500 seeds \$29.10; 1,000 seeds & over \$38.55 per M.

### PIÑA COLADA™

(6-8 in/15-20 cm) Extra dwarf, base branching, uniform, free flowering species that blooms first year from seed - without vernalization. Excellent for 4 in/10 cm pot production or gallon container sales. Hardy through zones 3-8. Likes full sun. Blooms in early spring.

**902D Light Rose Shades**      **902C White**

Prices for Piña Colada colors: Pkt. (25 seeds) \$2.45; 250 seeds \$4.65; 1,000 seeds & over \$12.31 per M.

## POPPY (PAPAVER)

CULTURE: Difficult to transplant - sow directly into peat pots, outdoors, May 1 - July in 75°F/24°C soil. Do not cover seed. Sow indoors March 1, reduce night soil to 60°F/16°C to induce germination.

**1210B Pizzicato Mix** (24 in/60 cm) Oriental - Wind tolerant stems. Large 8 in/20 cm single blooms in red, pink, mauve, salmon, white and red with black centers. Pkt. (100 seeds) \$3.35; 1/16 oz. \$25.25; 1/2 oz. \$134.50; oz. \$269.00.

**1209 Wonderland Mix** (10 in/24 cm) Nudicaule. F2 hybrid for 4 in/10 cm pots or sales in paks. Large single 4 in/10 cm blooms, 10 months from seed. Shades of pink, orange, yellow and white. Biennial. Pkt. (50 seeds) \$2.20; 1,000 seeds & over \$9.72 per M.

**1209A Partyfun Mix** (16 in/40 cm) Nudicaule. Blended from a wider F2 color range of the Champagne Bubbles type. Larger 4.5 in/11 cm single flowers on bushy, wind tolerant plants. Use for bedding plants or 4 in/10 cm pots. Many pastel shades and bicolors of yellow, orange, scarlet, red and light pink. Biennial zones 3-7. 124,000 seeds per oz/28 g. Pkt. (50 seeds) \$2.20; 250 seeds \$4.10; 1,000 seeds & over \$7.02 per M.

**1209M Spring Fever™ Mix** (10-12 in/25-30 cm) Daylength neutral type produces multiple stems at one time. Extra large single flowers. 5 color mix blooms late spring from a fall planting. Zones 2-7. Pkt. (50 seeds) \$2.90; 250 seeds \$10.40; 1,000 seeds & over \$17.70 per M.

## HYBRID F1 POPPY

F1 hybrid Champagne Bubbles is a Biennial through zones 6a-8b (mid US), it is not as hardy in the northeast as F2 hybrid Partyfun (zones 3-7). Frost tolerance to -10°F/-23°C. Plants bloom first year from seed, have strong stems, and improved colors. Primed seed.

**1211 Champagne Bubbles Mix** (15 in/38 cm) Use for 6 in/15 cm pots or landscaping. A mix of orange, pink, scarlet, white and yellow blooms with pale yellow centers. Pkt. (50 seeds) \$2.50; 250 seeds \$6.95; 1,000 seeds & over \$13.32 per M.

## POLEMONIUM (Jacob's Ladder)

CULTURE: 17,000 seeds per oz/28 g. Sow Jan.15th for May plant sales. Germinate at 68-72°F/20-22°C for 10 days. Press seed into surface, do not cover. Grow plants cool at 60°F/15°C in sunny location. Bushy evergreen-like foliage is fragrant. Alternate leaves are arranged in ladder-like pattern. Perennial plants bloom 90 days from seeding.

**1257 Blue Pearl** (28 in/70 cm) Azure blue Pkt. (50 seeds) \$2.20; 1/8 oz. \$5.65; 1/4 oz. \$10.25; 1/2 oz. \$19.10.

## PRIMULA

### HYBRID PRIMULA ACAULIS

CULTURE: Pre-chill before sowing at 35-40°F/2-4°C for 48 hours. Sow from February 1 to April 1 or July 15 to August 1. Stems will get too tall if sown after August 7. Maintain soil at 70°F/21°C for 40 days. Keep moist. Don't cover seed. Most primulas overwinter better than pansies in the Northeast. Allow 16-20 weeks from transplanting to sale in flowering pots.

**1256C Danova Mix** (5 in/12 cm) Extremely uniform plants and flowering, grandiflora size blooms. Best series for 4 in/10 cm pots. Pkt. (10 seeds) \$3.85; 100 seeds \$13.45; 500 seeds \$42.60; 1,000 seeds & over \$66.15 per M.

### ORION®

(5 in/12 cm) Our best mid-season flowering acaulis for late winter and early spring sales. Large scented flowers on compact plant. All colors bloom together. High quality seed. Crop time 16-19 wks (6-8 wks from 288 plugs).

**1253M Orion Mix** Formula blend of 9 colors. Pkt (25 seeds) \$4.30; 250 seeds \$21.30; 1,000 seeds & over \$61.43 per M.

## PRIMULA OBCONICA

**CAUTION:** Persons allergic to primula obconica should avoid handling or touching plants without gloves and long sleeved protective clothing. CULTURE: Sow indoors June to August for December to March blooms.

**1255 Libre™ Mix** (12 in/30 cm) The breeder claims this mixture to be non-toxic to human touch, but susceptible to thrips. Nice blend of Obconica colors. Pkt. (25 seeds) \$3.25; 100 seeds \$6.25; 500 seeds \$18.70; 1,000 seeds & over \$28.75 per M.

### HYBRID PRIMULA POLYANTHUS

CULTURE: Germinate like other primulas. This type is winter hardy and more upright in habit. Blooms are held above foliage. Allow 18-20 weeks from transplanting time to sale. Grow plants cool at 40°F/4°C. Use **SuperNova Mix** in milder climates. Zone 5b.

**1261M SuperNova Mix** (8 in/20 cm) Not as hardy as Pacific Giants but has better disease tolerance and is earlier flowering. Extra large 2 in/5 cm blooms on 4 in/10 cm umbels. Wider color range of up to 11 colors. Pkt. (25 seeds) \$4.25; 100 seeds \$14.35; 500 seeds \$43.00; 1,000 seeds & over \$66.08 per M.

## PYRETHRUM

### CHRYSANTHEMUM/DAISY

CULTURE: 18,000 per oz/28 g. Sow March 1st for June blooms, or outdoors in July. Germinate in 75°F/24°C soil for 21 days. Plants produce single flowers first season from seed, then bloom May/June.

**1260 Robinsons Giant Single Mix** (30 in/ 76 cm) Best single, daisy flowered strain. Stems extremely strong. Red and pink shades are used as contrasts to white Shasta Daisy. Pkt. (250 seeds) \$2.20; 1/16 oz. \$3.35; 1/4 oz. \$8.70; 1/2 oz. \$16.10; oz. \$24.75.





Sweet William - Sweet Mix



Dynasty Pink Magic



Tritoma - Flamenco



Diabunda Red Picotee



Scabiosa - Fama Deep Blue



Rudbeckia - Cherry Brandy



Venidium - Zulu



Sweet William - Barbarini Mix



Salvia - Merleau Rose

## ☼ RUDBECKIA (Fulgida/Hirta) ☼

CULTURE: 25,000 seeds per oz/28 g. Sow indoors March 1st, alternate soil temperature from 65°F/18°C nights to 70°F/21°C days for 14-21 days. Press seed into surface. Grow seedlings and plants cool.

**1302 Goldsturm** (28 in/70 cm) Golden, single blooms with dark discs. Blooms Aug-Sept., Zone 4. Pkt. (25 seeds) \$2.20; 250 seeds \$4.45; 1,000 seeds & over \$7.59 per M.

**1258K Cherry Brandy™** (24 in/60 cm) First-ever red semi-hardy Rudbeckia from seed. Blooms all summer long. Hirta type zone 5. Pkt. (50 seeds) \$3.90; 250 seeds \$15.40; 1,000 seeds & over \$52.15 per M.

## 🪴 SALVIA (Salvia Nemorosa)

(12-15 in/30-38 cm) Sow March 1 for June plants. Germinate seeds at 72°F/22°C for 5-14 days. Press seed into soil surface but do not cover. Transplant 15 days after germination. Reduce temps. to 64°F/18°C to encourage root growth. Crop time about 10 weeks. Soil pH 5.6-6.2. Use B-9 at 2500 ppm to control plant height. Likes sunny dry location.

**1275A Merleau® Blue** Hardier than Farinacea types. Blooms first year from seed. Compact well branched plants, no vernalization required. Use for gallon containers or smaller pots. Blooms all summer. Zones 4-8.

**1275B Merleau® Rose** (12-15 in/30-38 cm) Rose pink Prices for each of the above Merleau colors: Pkt. (25 seeds) \$2.90; 250 seeds \$25.45; 1,000 seeds & over \$36.64 per M.

## 🌱 SAPONARIA (Soapwort)

CULTURE: 14,000 seeds per oz/28 g. Sow indoors direct into peat pots March 1st. Germinate at 65°F/18°C for 14 days. Cover seed lightly, keep moist. Do not try to transplant seedlings. Pinch in early growth to promote cascading effect. Trim dead blooms after June/July flowering. Divide plants.

**904 Ocymoides** (8 in/20 cm) Neon rose single, five petal blooms on dwarf dark green plants with narrow leaves that make a soapy lather if crushed. Use for hanging baskets, edging walks, rock gardens. Pkt. (25 seeds) \$2.15; 250 seeds \$4.10; 1,000 seeds & over \$7.02 per M.

## ☼ SCABIOSA ☼

CULTURE: 2,000 per oz/28 g. Sow March 1st in peat pots at 70°F/21°C soil temp. (60°F/16°C nights) for 14-21 days. Sow outside in early June or Sept. Thin or transplant 12 in/30 cm apart in slightly alkaline soil with good drainage. Keep watered when hot.

**1310 Caucasica Giant Hybrids** (3 ft/91 cm) Suited for perennial plant growers. Frilled and ruffled flowers, mix of white, lavender & blue shades. Pkt. (25 seeds) \$3.75; 250 seeds \$33.95; 1,000 seeds & over \$107.90 per M.

**1309A Fama Deep Blue** (20 in/50 cm) Caucasica. Plants bloom from May to fall, all summer long. Extra large blooms. Use in mixed containers, beds or as a cut flower. Crop time: 288 plugs - 6 weeks; gallon pots - 12-14 weeks. Hardy through zones 3-7. Pkt. (10 seeds) \$4.75; 250 seeds \$65.70; 1,000 seeds & over \$161.89 per M.

## 🪴 SEDUM ☼

CULTURE: 3,500 seeds per 1/64 oz. Sow indoors in March, outdoors mid April at 65-75°F/18-24°C soil temperature for 2-3 weeks. Full sun.

**1301A Acre** (4 in/10 cm) Golden blooms. Pkt. (50 seeds) \$2.15; 1,000 seeds & over \$4.73 per M.

## ☼ SWEET WILLIAM (Barbatus)

CULTURE: 26,000 per oz/28 g. For perennial sales, sow indoors February 15th; April 15th outdoors. Blooms the following summer. Plants self-seed. Sow 10-12 weeks before sale in pots. Germinate at 70°F/21°C for 10 days. Grow plants cooler at 50°F/10°C.

**1352 Stokes Tall Double Mix** (18 in/46 cm) Choice extra double, large flowered mixture in bright color variations. Flowers 60% double the second year. Pkt. (300 seeds) \$2.40; 1/4 oz. \$11.00; oz. \$31.50.

**1351 Early Spring Messenger** (18 in/46 cm) Semi-dwarf, wind tolerant single bloom mix that flowers the first year. Used for plants or cutting. Pkt. (300 seeds) \$2.20; 1/4 oz. \$3.95; oz. \$8.45.

### HYBRID SWEET WILLIAM



SWEET



F1 hybrid (18 in/46 cm) First year blooming, tender wind tolerant perennial - zone 7a (0°F/-15°C). Produces high yields of strong, upright stems. Saleable fragrant cut flower. Replaces Noverna series. Very uniform, single flowered series with some frost and good heat tolerance. Marketed in 6 in/15 cm gallon containers. Taller growth 36 in/90 cm is possible from early, fall transplanted greenhouse plants. Pelleted Seed only.

**P1822A Purple/White Bicolor** **P1822C Red**  
**P1822B Black Cherry** **P1822D White**  
**P1822 Mix** 6 colors

Prices for Sweet colors & Mix: Pkt. (30 seeds) \$4.55; 100 seeds \$10.10; 1,000 seeds & over \$45.52 per M.



BARBARINI®



F1 hybrid (8-12 in/20-30 cm) First year flowering semi-dwarf Barbatus type. Vernalization is beneficial but not necessary. Ideal for fall sales with overwintering ability through zone 5. Compact uniform plants are excellent for quart or gallon container sales. Blooms April through Sept. Likes full sun. Wind tolerant plants.

**1346C Barbarini Mix** Formula blend of 10 colors including white, salmon, red, lilac, purple, plus red and purple picotees and purple bicolor. Pkt. (15 seeds) \$3.75; 250 seeds \$35.60; 1,000 seeds & over \$60.69 per M.

### DOUBLE FLOWERED BARBATUS X CHINENSIS DYNASTY

F1 hybrid (16-20 in/40-50 cm) Fully double lightly scented blooms look like mini carnations. Well branched plants have very strong, upright stems. Self cleaning (no dead heading required). Excellent for massed beds or as a backyard cut flower. Heat tolerant hardy perennial to zone 6 (-10°F/-23°C; wind tolerant). Similar to Ideal series but blooms are fully double. Crop time: 12-13 weeks in late Spring/early Summer; 11-12 weeks for a late Summer/Autumn crop. Pelleted seed.

**P1818A Orchid** **P1818D Red**  
**P1818B Pink Magic** **P1818E Rose Lace**  
**P1818C Purple** **P1818F White Blush**  
**P1818 Dynasty Mix** Formula mix of Dynasty colors

Prices for Dynasty colors & Mix: Pkt. (30 pellets) \$4.55; 250 pellets \$23.55; 1,000 pellets & over \$62.90 per M.



### DWARF SWEET WILLIAM DIABUNDA™ SERIES

F1 hybrid. Dianthus X Barbatus (6-8 in/15-20 cm) Finally - an extra dwarf earlier flowering hybrid Sweet William for early spring & fall sales. Full, base branching, uniform mounded plants compare to traditional Barbatus dwarfs. Very easy to grow! Crop time 10-12 weeks. High germ. seed. Plants spread 8-10 in/20-25 cm. Hardy to zone 5. Use in pots, containers, borders, massed plantings, rock gardens. Pellets only.

**P1821A Pink Pearl** **P1821D Red** **P1821B Purple**  
**P1821F Rose** **P1821 Mix** **P1821E Red Picotee**  
**P1821C Purple Picotee**  
Pkt. (30 pellets) \$4.50; 250 pellets \$17.80; 1,000 pellets \$47.56.

## 🪴 SEMPERVIVUM (Succulent) 🪴

See potted plants - listed on page 91.

## ☼ STATICE (Sea Lavender) ☼

CULTURE: 31,000-34,000 seeds per oz/28 g. Germinate at 60°F/16°C for 10 days, without light. Sow in spring or fall. Space 20 in/51 cm apart. Sold green in paks.

**1355A Tatarica German Statice** (1.5 ft/46 cm) Grown for intricately branched flower stems, tiny white flowers on spikelets. Blooms Aug.-mid Sept. Pkt. (50 seeds) \$2.40; 250 seeds \$4.70; 1,000 seeds & over \$8.04 per M.

## ☼ TRITOMA

KNIPHOFIA/TORCH LILY

CULTURE: 9,000 seeds per oz/28 g. Sow indoors in Apr. at 80°F/27°C soil temp. or outdoors in June. To germinate, vary day/night soil temps. 65-70°F/18-21°C for 15 days. Grow plants cooler at 50°F/10°C. Sold green in paks.

**1347 Flamenco** (32 in/80 cm) Sow Jan.15th for July blooms. Blend of cream, orange, yellow and red. AAS Winner. Pkt. (25 seeds) \$2.60; 250 seeds \$15.90; 1,000 seeds & over \$47.24 per M.

## ☼ VENIDIUM

CULTURE: 33,600 seeds per oz/28 g. Considered a half-hardy annual in sub zero areas, but will winter over with straw protection. Germinate at 62-72°F/15-20°C for 14-20 days. Sow indoors March 1st, outdoors April 15th. Choose a sunny area. Flowers Aug. until frost.

**1380 Zulu** (2.5 ft/75 cm) Long stemmed daisy-shaped flowers of pure white with black centers that last well in water after cutting. Sunflower-like blooms 4 in/10 cm across. Pkt. (50 seeds) \$2.15; 1/32 oz. \$5.45; 1/16 oz. \$10.10; 1/4 oz. \$30.00.

## ☼ VERONICA ☼

CULTURE: 224,000 per oz/28 g. Veronica or Speedwell should be sown outside where it blooms May 15. Excellent medium height rock garden perennial. It can be sown indoors Feb.20th at 65°F/18°C for 16 days. Reduce soil temp. at night. Grow cooler at 45°F/7°C, 2 weeks after germination. Pelleted Seed only.

**P1375B Blue Bouquet** (12 in/30 cm) Excellent bedding plant or cut flower. First year blooming. Flowers from late spring throughout summer. Likes full sun. Increase soil fertility and moisture for longer stems. Pkt. (25 pellets) \$3.75; 250 pellets \$33.75; 1,000 pellets & over \$57.53 per M.

## ☼ WALLFLOWERS (Cheiranthus)

CULTURE: Erysimum - Plants prefer full sun. Sow indoors Mar. 1st in pots. Germinate at 70°F/21°C for 7-10 days. Grow plants cooler at 50°F/10°C. Biennial. Grown as an annual in the Northeast. 19,000 seeds per oz/28 g. Average germ. 85%.

**1409 Charity Mix** (6 in/15 cm) Extra early, day length neutral. Very uniform plant during summer months. Easy to grow. Blend of cream yellow, dark yellow, rose red, and scarlet. Pkt. (25 seeds) \$2.15; 250 seeds \$10.45; 1,000 seeds & over \$15.07 per M.



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Jumbo Pg 41



Awesome XR Pg 22



Aspabroc Pg 10



Goldfinger Pg 18



Dutchess Pg 36



Purple Fingers Pg 32



Goosebumps II Pg 47



SV1003GF Pg 7



Super Red 115 Pg 14



EZ Rider Mix Pg 79



Wonderfall Yellow with Blotch Pg 77



Ruby Eclipse Pg 70



Pinto Premium White to Rose Pg 67



Sweet Mix Pg 97